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ABSTRACT

The 11th Annual Survey of Graduate Science and Engineering Students and Postdoctorates requested data from all institutions of higher education in the United States in which there was at least one science or engineering program leading to a master's or doctoral degree, including medical schools and other components granting first-professional doctorates in health-related fields. These data are presented in detailed statistical tables provided in five parts labeled A-E. The first part includes summary data for all institutions, both doctorate- and master's-granting for fall 1982. The second part presents summary trend statistics from all graduate institutions, 1975-1982. The third and fourth parts show similar trend statistics for doctorate-granting and master's-granting institutions. The tables in the last part provide information on total departmental coverage for each of the last seven survey cycles and rankings of individual institutions based on fall 1982 data. Among the variables considered are sex, race, citizenship, field of science or engineering, employment status, geographic distribution, type of control, full-time status, and part-time status. Also provided are technical notes, classification of institutions, and copies of 1982 survey forms together with survey instructions and summaries of institutional responses. (JN)

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academic science/ engineering: graduate enrollment and support, fall 1982

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detailed statistical tables

NSF 84-306

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To obtain accurate historical data, use only the latest detailed statistical tables for fall 1982 (NSF 84-306) and not data published earlier. Institutions revise prior-year data when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes.

general notes

This publication presents the results of the eleventh annual Survey of Graduate Science and Engineering Students and Postdoctorates, covering fall 1982. Data were requested from all institutions with programs leading to a master's or doctorate degree in any science or engineering (S/E) field, including medical schools and other components granting first-professional doctorates in health-related fields.

Data collected in the fall 1982 survey are presented in section III, which has five subsections designated "A" through "E." Subsection "A" presents summary data for fall 1982 from all graduate institutions, both doctorate- and master's-granting; subsection "B" contains summary trend data from all graduate institutions for the years 1975 through 1982; subsections "C" and "D" show similar trend statistics for doctorate-granting institutions and for master's-granting institutions, respectively; and subsection "E" includes information on total departmental coverage for each of the last seven survey cycles as well as rankings of individual institutions on the basis of fall 1982 data. In section IV, institutional and departmental questionnaires and instructions are displayed along with summary questionnaire facsimiles showing data for all departments in each level of highest degree granted, broad S/E field, and type of institution.

Data shown for doctorate-granting institutions include all institutions in which any component (e.g., branch campuses or schools of medicine, dentistry, etc.) offered a program leading to the Ph. D. or equivalent (including first-professional doctorates in health-related fields) for all years in which such a program was offered. It should be noted that this classification differs from that introduced by the National Center for Education Statistics (NCES) in 1981, in which institutions granting only first-professional doctorates in health-related fields are classified as "professional and specialized institutions." Further discussion of the differences between the National Science Foundation (NSF) and NCES institutional classification systems is contained in section II.

In tables showing sources of full-time student support, the term "institutional support" refers to those receiving their primary support from State or local governments as well as those supported primarily by their institutions. The residual category, "other U.S. sources," includes those students receiving their major support from industrial firms, nonprofit institutions, and all other sources of support originating within the United States. Students supported by foreign industrial firms, as well as foreign governments, are included under "foreign sources."

The term "imputation" designates a computerized process which uses prior-year data from nonrespondent institutions, when available, to generate estimates for current-year data that the institutions themselves were unable to provide. Imputation may take place at the institutional or departmental level or at the item or detailed level within a department. When available, totals reported in the previous year were increased or decreased to reflect the growth or decline in the relevant variable reported by similar departments. In cases where prior-year data were unavailable, totals were distributed on the basis of factors derived from peer departments (i.e., those in the same field granting the same level of degree).

Only data from the most recent publication should be used in tracing historical trends in graduate enrollment and postdoctorate utilization. Prior-year data are reviewed both by NSF and by the institutional respondents during the course of each year's data collection phase, and where discrepancies exist, institutions may submit revised data for one or more prior years; data published in earlier reports in this series should therefore be regarded as superseded.

The data presented in this publication are also available in machine-readable format on magnetic tapes through the data processing contractor, Abt Associates, Inc. A multi-year data tape contains data for fall 1975 through fall 1982; single-year tapes are available for earlier years and for the current year only. Detailed information on tape formats and years available are contained in the *Data User Guide*, updated annually by the contractor. For additional information on the survey findings, or to order a copy of the *Data User Guide*, please contact Mr. J. G. Huckenpahler at the following address:

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section i

technical notes

the survey universe

Data presented in this report on the fall 1982 Survey of Graduate Science and Engineering Students and Postdoctorates (GSSP) represent all institutions in the United States offering programs leading to a master's or doctorate degree in one or more science or engineering (S/E) fields. Included with the institutions are branch campuses, affiliated research centers, and schools of medicine, dentistry, nursing, public health, etc. The survey universe for fall 1982 comprised 734 reporting units at 614 institutions, including 443 reporting units at 323 doctorate-granting institutions and 291 master's-granting institutions.

The National Science Foundation (NSF) has collected data on graduate S/E enrollment and postdoctorates annually since 1967. Data for the first five years were collected through the Graduate Traineeship Program and for the succeeding years through the GSSP surveys. Because of the gradual expansion of coverage between 1971 and 1975, however, data for 1967 through 1974 are not strictly comparable with the totals for 1975 and later years. Table I-1 shows the number of institutions, reporting units, and departments included in the survey universe for each year from 1967 to 1982.

The apparent decline in the number of surveyed departments in doctorate-granting institutions that began in 1980 is primarily attributable to the deletion from the survey universe of departments or programs, primarily in medical schools, which have neither S/E graduate students nor postdoctorates. Because of the increasing financial stringency at many institutions, the

Table I-1. The NSF data collection series: 1967-82

Source and year of series	Number of institutions surveyed	Number of reporting units surveyed	Number of departments		
			Total	Master's	Doctorate
A. Graduate Traineeship Program					
1967	209	NA	3,014	434	2,580
1968	219	NA	3,190	454	2,736
1969	224	NA	3,354	460	2,894
1970	227	NA	3,544	473	3,071
1971	224	249	3,397	407	2,990
B. Survey of Graduate Science and Engineering Students and Postdoctorates[1]					
Doctorate institutions:					
1972[2]	260	328	4,593	780	3,813
1973	264	340	6,571	885	5,686
1974	282	370	7,498	1,394	6,104
1975	283	376	7,659	1,471	6,188
1976	291	384	7,759	1,526	6,233
1977	295	393	7,988	1,650	6,338
1978	313	421	8,202	1,790	6,412
1979	319	436	8,341	1,825	6,516
1980	327	444	8,529	1,951	6,578
1981	324	440	8,448	1,937	6,511
1982	323	443	8,346	1,926	6,420
Master's institutions:					
1975[3]	307	310	1,263	1,263	NA
1976	309	312	1,299	1,299	NA
1977	311	314	1,469	1,469	NA
1978[4]	1	1	15	15	NA
1979	314	314	1,442	1,442	NA
1980	303	303	1,396	1,396	NA
1981	302	302	1,421	1,421	NA
1982	291	291	1,430	1,430	NA

[1] The name of the survey has been changed in 1981 to specify the inclusion of engineering.
[2] The 1972 survey of doctorate-granting institutions included selected data items for 1971.
[3] The 1975 survey of master's-granting institutions included selected data items for 1975.
[4] The 1978 survey did not include master's institutions. One institution was subsequently changed from doctorate- to master's-granting.

NOTE: NA—not applicable.

SOURCE: National Science Foundation

expansion of graduate programs and the introduction of new programs which had characterized the seventies slowed considerably after 1980. A number of medical departments or programs which had continued to participate in the survey on the basis of their expectation of eventually enrolling graduate students or employing postdoctorates in research-related activities began to indicate that such expansion had become increasingly unlikely.

Tables I-2 and I-3 show the number of departments from 1975 through 1982 in each year's data base by broad S/E field and the number of full-time graduate students enrolled in doctorate- and master's-granting institutions, respectively. Master's-granting institutions were not surveyed in 1978.

the survey instruments

The questionnaire used in the fall 1982 GSSP survey was almost identical to that used in 1981, with these modifications: Data on foreign graduate students enrolled full time were reported in item 7 rather than in item 5 to reduce respondent burden; comparable data were added for foreign graduate students enrolled part time; and an optional line was added to item 8, Postdoctorates, requesting information on postdoctorates holding the M.D. or other first-professional degrees in the health fields.

In response to a request from NSF's Scientific and Engineering Personnel Studies Section (STPSS), an optional insert was designed which requested data on total faculty employed in the department by rank and tenure status; new appointments during the 1981/82 academic year; number of departures during the 1981/82 academic year, with reasons for leaving; and nonfaculty doctoral research staff by number of years since doctorate. These items were added as an attempt to update some of the data items formerly collected through NSF's Study of Research Participation and Other Characteristics of Recent Science and Engineering Faculty, last conducted in spring 1980.

Survey packets also contained a flow chart for the assistance of those institutions or departments using computerized records to prepare their submissions, and a "crosswalk" matching NSF fields with the field codes designed by NCES in 1981. The "crosswalk" was modified slightly to maintain comparability with data collected in NSF's other surveys of academic S/E resources: R&D expenditures, Federal support to universities, colleges, and selected nonprofit institutions, and S/E personnel employed. A complete set of GSSP survey instruments is displayed in section IV of this report.

Table I-2. Number of graduate departments and full-time enrollment at doctorate-granting institutions by area of science/engineering: 1975-82

Area of science/ engineering	1975	1976	1977	1978	1979	1980	1981	1982
	Number of departments							
Total, all areas	7,659	7,759	7,988	8,202	8,341	8,529	8,448	8,346
Engineering	1,013	1,009	1,016	1,027	1,031	1,047	1,051	1,064
Physical sciences	520	505	505	514	514	523	523	520
Environmental sciences	258	264	269	276	277	278	280	283
Mathematical/computer sciences	390	399	403	415	426	454	454	469
Life sciences	4,162	4,213	4,383	4,502	4,588	4,667	4,580	4,441
Psychology	278	285	299	315	318	324	329	330
Social sciences	1,038	1,084	1,113	1,153	1,187	1,236	1,231	1,239
	Full-time enrollment							
Total, all areas	210,321	214,089	217,453	216,608	223,409	230,686	234,371	237,676
Engineering	37,083	38,434	37,008	37,390	39,700	42,300	45,203	49,106
Physical sciences	21,274	21,582	21,741	21,485	21,781	22,259	22,603	23,365
Environmental sciences	8,989	9,528	9,847	9,830	10,037	10,112	10,332	10,747
Mathematical/computer sciences	14,125	14,525	13,975	13,690	14,177	15,253	16,136	18,181
Life sciences	59,635	62,010	64,458	65,311	66,573	67,851	67,352	66,094
Psychology	19,710	21,453	21,239	20,693	20,718	21,572	21,535	21,144
Social sciences	49,505	48,557	49,185	48,209	50,423	51,339	51,210	49,039

SOURCE: National Science Foundation

Table I-3. Number of graduate departments and full-time enrollment at master's-granting institutions by area of science/engineering: 1975-77 and 1979-82[1]

Area of science/engineering	1975	1976	1977	1979	1980	1981	1982
	Number of departments						
Total, all areas	1,263	1,299	1,469	1,442	1,396	1,421	1,430
Engineering	127	128	156	147	143	141	146
Physical sciences	177	180	190	172	157	153	153
Environmental sciences	46	50	54	53	55	55	57
Mathematical/computer sciences	153	157	173	167	157	162	158
Life sciences	287	296	346	354	350	367	376
Psychology	149	153	167	179	175	184	188
Social sciences	324	335	383	370	359	359	352
	Full-time enrollment						
Total, all areas	16,335	16,759	18,711	18,970	18,473	18,646	18,283
Engineering	730	733	890	1,049	1,126	1,295	1,470
Physical sciences	642	671	767	744	656	703	706
Environmental sciences	688	542	528	547	704	631	584
Mathematical/computer sciences	1,043	1,136	959	1,312	1,203	1,445	1,869
Life sciences	3,878	4,332	4,525	4,679	4,640	4,989	4,582
Psychology	4,399	4,167	4,444	5,128	5,099	5,168	4,739
Social sciences	4,955	5,178	6,598	5,511	5,045	4,415	4,333

[1] Master's-granting institutions were not surveyed in 1978.

SOURCE: National Science Foundation

the method

The fall 1982 survey packages were mailed out in December 1982 and consisted of a cover letter to the institutional coordinator describing the survey, a flier exlaining the interrelation between the GSSP and the other academic S/E surveys, a postcard to be returned indicating expected response date and any change in coordinator, a computer-generated form 811, Listing of Departments and Programs, showing key totals reported or estimated for each department during the previous survey cycle, and, for each departmental respondent, a cover letter explaining data requests in more detail, two Departmental Data Sheets (NSF form 812), a questionnaire facsimile showing the department's prior-year data, and a flow chart.

Institutional coordinators were asked to indicate on the postcard whether data for their institutions were reported on the basis of centralized computer records or were assembled at the departmental level. Of the 623 institutional coordinators responding, approximately 6 percent replied that they used some computerized system, either entirely centralized or relying on departmental input; 13 percent reported that data were hand-tabulated at the institutional level; 40 percent responded that data were hand-tabulated by the individual departments; and the remaining 41 percent utilized some combination of computerized and hand-tabulated data.

On the form 811, coordinators were requested to check the departments listed and to make any modifications needed to reflect changes in the institution's structure such as departmental splits or mergers, new departments added and old departments abolished, and to indicate by a check mark any department that had neither graduate students nor postdoctorates in fall 1982 and would, therefore, not submit a form 812. The corrected form 811 was then to be returned to the survey contractor for use as a checklist.

Departmental Data Sheets (form 812) were either distributed to the individual departmental respondents or completed centrally and returned to the survey contractor for screening, data editing, processing, and tabulation. All errors, inconsistencies, and sharp fluctuations from data reported in earlier years were brought to the attention of the institutional coordinators for resolution.

During the editing phase of the survey, institutions reporting significant numbers of full-time graduate students under "other Federal sources" or "other U.S. sources" were asked if they could provide more detailed data on specific Federal agencies or private organizations providing such support. A total of 81 institutions were able to supply at least some information on other sources of support; in many instances, however, respondents could provide only estimates as to the types of institutions included (e.g., "industrial firms," "nonprofit foundations," etc.) Detailed data on major source of support were provided for 1,316 graduate students primarily supported by "other Federal agencies," 8 percent of the students in this category, and for 875 supported by "other U.S. sources," about 6 percent of all such students.

Of those primarily supported by Federal agencies other than those listed separately on the questionnaire,[1] the Department of Energy accounted for the largest group, 35 percent of the total, followed by the Department of Agriculture, with 28 percent of the total. Three-fourths of the remainder identified were distributed almost equally among the Department of Education, the Veterans' Administration, and the National Aeronautics and Space Administration.

Industrial firms constituted the major source of support for approximately three-fourths of the S/E graduate students included under "other U.S. sources", with almost all of the remainder primarily supported by nonprofit institutions. Among those primarily supported by organizations in the nonprofit sector, private philanthropic foundations were the source most often cited, followed by professional societies and voluntary health agencies. The reporting of students under "other Federal sources" and "other U.S. sources" will be more closely monitored in the fall 1983 survey and a distribution based on more complete data will be presented in the next edition of this report.

the response rate

Of the 9,776 departments included in the final data base, 8,104, or 83 percent, were able to supply complete data by the survey closeout in August 1983; an additional 744, or 8 percent, provided data at the key variable level (total full-time S/E enrollment, total part-time S/E enrollment, and total S/E postdoctorates). For nonrespondents and those providing partial information, data were machine-imputed using the methodologies described in general notes. As in 1980 and 1981, the imputation program generated data for all nonrespondents; in earlier years, imputation was not performed for those departments without prior-year data.

Numbers of departments requiring total or partial imputation and the numbers of full- and part-time S/E graduate students imputed are shown in tables I-4 and I-5 for doctorate-granting institutions and in tables I-6 and I-7 for institutions granting the master's degree. For each degree level, the totals, numbers imputed, and percent of total imputed are shown for each broad S/E field.

For most cells of the survey questionnaire, the proportion imputed was significantly lower in fall 1982 than in fall 1981, although still not as low as in 1980 and in earlier years, when imputation rates over 5 percent were the exception. The decline in response rates in recent years results primarily from funding and personnel cutbacks at the institutions, which have led to increased workloads for the administrative personnel who normally serve as coordinators and respondents. To some extent, these trends were counteracted in the 1982 survey by an earlier mailout with a longer lead time to the due date, combined with a more aggressive followup policy than was employed in 1981. It is expected that in the fall 1983 survey a November mailout and more intensive followup procedures will lead to further improvements in both the rate and timeliness of responses.

Response rates on the optional items (items 9 through 12) were substantially lower than those on the remainder of the questionnaire, as is normal in the first year when new items are added. Of the 3,471 optional forms received, 3,458 corresponded to individual departments completing the standard items (items 5 through 8); the remaining 13 represented combinations of departments or programs. The response rate was significantly higher among departments at doctorate-granting institutions than among those at master's-

[1] A copy of the questionnaire (NSF form 812) is reproduced in section IV of this report.

granting schools (37 percent and 24 percent, respectively). Table I-8 shows the response rates to the optional insert by area of science/engineering.

In view of the low response rates, it was decided that data available were insufficient to design a valid imputation strategy; information collected through the optional insert is not comparable to data collected via the standard items and, therefore, is not included in this report. For the fall 1983 survey, items 9 through 12 have been incorporated into the questionnaire itself, and it is anticipated that the response rate will be high enough to devise an imputation procedure capable of generating national estimates on the basis of the departments responding in both years.

Table I-4. Imputation for nonresponse at doctorate-granting institutions by area of science/engineering and enrollment status: 1982

Area of science/ engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Imputed	Full time	Part time	Postdoctorates	Full time	Part time	Postdoctorates	Full time	Part time	Postdoctorates
Total, all areas ...	8,346	694	237,676	109,738	19,733	17,492	12,375	2,323	7.4	11.3	11.8
Engineering	1,064	77	49,106	31,356	979	3,518	3,381	77	7.2	10.8	7.9
Physical sciences	520	39	23,365	3,153	4,280	1,215	367	296	5.2	11.6	6.9
Environmental sciences	283	26	10,747	2,722	334	942	315	52	8.8	11.6	15.6
Mathematical/ computer sciences .	469	30	18,181	12,247	240	739	768	10	4.1	6.3	4.2
Life sciences	4,441	362	66,094	25,250	13,090	4,610	2,391	1,741	7.0	9.5	13.3
Psychology	330	28	21,144	7,929	523	1,491	366	122	7.1	4.6	23.3
Social sciences	1,239	132	49,039	27,081	287	4,977	4,787	25	10.1	17.7	8.7

SOURCE: National Science Foundation

Table I-5. Imputation rates for all departments at doctorate-granting institutions: 1982

NUMBER OF DEPARTMENTS: 1248 (TOTALLY IMPUTED DEPARTMENTS: 694)

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE								SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	2.9	9.1	10.4	5.4	11.6	10.0	10.0	8.7		9.5
GRADUATE TRAINEESHIPS (2)	0.0	10.2	12.6	26.0	11.1	8.1	9.3	7.6		10.3
GRADUATE RESEARCH ASSISTANTSHIPS (3)	7.3	7.0	8.1	6.0	8.8	8.1	2.6	8.1		7.7
GRADUATE TEACHING ASSISTANTSHIPS (4)		4.0	0.0	0.0	3.9	9.7		2.9		9.6
OTHER TYPES OF SUPPORT (5)	35.4	7.6	10.2	19.7	7.1	12.9	6.8	9.4	11.3	11.7
FULL-TIME TOTAL (6)	17.7	8.5	11.9	6.2	9.0	9.6	7.9	8.4	11.3	7.3
FULL-TIME WOMEN (7)	10.2	10.8	14.6	6.1	9.7	13.2	7.5	9.4	16.0	10.8
FIRST-YEAR TOTAL (8)										9.7
FIRST-YEAR WOMEN (9)										10.2

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	11.2
WOMEN (2)	13.5

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	11.4	26.8	8.9	8.5	9.5	36.1	12.0	7.3
PART-TIME (2)	20.1	40.6	18.0	18.9	18.5	22.4	24.7	11.2

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	14.2	15.8	9.4	15.5	11.7	10.6	12.4	11.7
WOMEN (2)	8.1	14.6	10.5	16.2	12.2	10.1	10.5	11.7
WITH MD, DDS, OR DVM DEGREES (3)	20.8	19.1	12.5	20.2	18.7	14.9	15.1	17.4

SOURCE: NATIONAL SCIENCE FOUNDATION

Table I-6. Imputation for nonresponse at master's-granting institutions by area of science/engineering and enrollment status: 1982

Area of science/ engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Imputed	Full time	Part time	Postdoctorates	Full time	Part time	Postdoctorates	Full time	Part time	Postdoctorates
Total, all areas ...	1,430	234	18,283	33,985	39	2,843	3,869	4	15.5	11.4	10.3
Engineering	146	26	1,470	4,857	4	355	610	2	24.1	12.6	50.0
Physical sciences	153	26	706	981	17	165	135	0	23.4	13.8	0
Environmental sciences	57	7	584	863	5	63	139	1	10.8	16.1	20.0
Mathematical/ computer science ..	158	20	1,869	4,724	1	335	271	0	17.9	5.7	0
Life sciences	376	70	4,582	7,592	11	847	906	1	18.5	11.9	9.1
Psychology	188	28	4,739	6,393	0	386	837	0	8.1	13.1	0
Social sciences	352	57	4,333	8,575	1	692	971	0	16.0	11.3	0

SOURCE: National Science Foundation

Table I-7. Imputation rates for all departments at master's-granting institutions: 1982

NUMBER OF DEPARTMENTS: 424 (TOTALLY IMPUTED DEPARTMENTS: 234)

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE								SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES				
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	DHHS: NATIONAL INST. OF HEALTH (B)	DHHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	100.0	50.0	0.0	62.5	19.9	15.1	20.5	17.0		19.0
GRADUATE TRAINEESHIPS (2)	0.0	19.4	39.3	0.0	34.2	23.6	7.1	0.0		28.4
GRADUATE RESEARCH ASSISTANTSHIPS (3)	88.8	31.9	0.0	18.7	20.8	30.2	85.7	22.7		28.5
GRADUATE TEACHING ASSISTANTSHIPS (4)		0.0	0.0	0.0	48.8	31.3		29.1		31.4
OTHER TYPES OF SUPPORT (5)	38.5	16.6	8.3	100.0	3.4	28.1	15.8	15.9	23.7	23.4
FULL-TIME TOTAL (6)	44.0	25.9	32.8	46.4	18.5	29.3	17.7	16.0	23.7	15.5
FULL-TIME WOMEN (7)	0.0	22.0	28.0	51.6	24.9	30.1	21.0	14.0	22.0	17.1
FIRST-YEAR TOTAL (8)										21.6
FIRST-YEAR WOMEN (9)										19.8

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	11.3
WOMEN (2)	16.4

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	15.3	46.4	20.1	15.0	19.6	36.2	32.5	15.5
PART-TIME (2)	21.0	61.5	18.6	29.1	24.5	19.7	31.3	11.3

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	0.0	0.0	14.9	5.8	10.2	16.6	12.5	10.6
WOMEN (2)	0.0	0.0	25.0	0.0	13.3	50.0	0.0	12.5
WITH MD, DDS, OR DVM DEGREES (3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SOURCE: NATIONAL SCIENCE FOUNDATION

Table I-8. Response rates to optional items by area of science/engineering and degree level: 1982

Area of science/ engineering	All institutions		Doctorate-granting institutions		Master's-granting institutions	
	Number of optional forms returned	Percent of departments responding	Number of optional forms returned	Percent of departments responding	Number of optional forms returned	Percent of departments responding
Total, all areas	3,458	35.4	3,108	37.2	350	24.5
Engineering	560	46.3	529	49.7	31	21.2
Physical sciences	323	48.0	276	53.1	47	30.7
Environmental sciences	177	52.1	164	58.0	13	22.8
Mathematical/computer sciences	271	43.2	229	48.8	42	26.6
Life sciences	1,355	28.1	1,250	28.1	105	27.9
Psychology	203	39.2	151	45.8	52	27.7
Social sciences	569	35.8	509	41.1	60	17.0

SOURCE: National Science Foundation

section ii

classification of institutions

The tables on the following pages list all institutions included in the survey universe for fall 1982, as well as the separate reporting units within those institutions for which multiple responses were requested. Table II-1 lists all institutions considered by NSF to be doctorate-granting; table II-2 shows those granting a master's as their highest S/E degree. For each degree-level group, the institutions are shown alphabetically within State.

Tables II-1 and II-2 also display the NCES Institutional Classification Code for each institution in the survey. These codes were adopted by NCES in 1981 to replace the coding system originally designed in 1971 by the Carnegie Commission on Higher Education and last updated in 1976. Institutions were assigned to these categories on the basis of three criteria: (1) Number of degrees awarded, by level of degree; (2) number of fields in which degrees were earned; and (3) the ratio of degrees awarded in selected fields to the total number of degrees awarded.

Because of the emphasis of the NCES classification criteria, the codes assigned by NCES may differ significantly from NSF's highest degree codes. For example, the NCES "doctorate-granting institutions" category includes only those 161 institutions considered by NCES to have a "significant level of activity" and "diversity in doctorate program offerings" as defined below, whereas in NSF's degree-level classification, all those 323 institutions with any programs leading to a doctorate in any S/E field, including first-professional doctorates in the medical and health-related fields, are listed in this category. The "doctorate-granting institutions" data shown in table A-5 of section III should, therefore, not be compared with data on doctorate-granting institutions shown elsewhere in this report.

The survey universe is drawn primarily from categories A and B, with some institutions from categories C and D. All institutions in category E are excluded by definition. The NCES institutional classifications used in the GSSP are defined as follows:[2]

A. Doctorate-Granting Institutions

These institutions are characterized by a significant level of activity in and commitment to doctoral-level education as measured by the number of doctorate recipients and in diversity in doctorate program offerings. Included in this category are institutions that are not considered specialized schools (see classification D below) and that grant a minimum of 30 doctoral-level degrees. These degrees must be granted in 3 or more doctoral-level program areas or have an interdisciplinary program at the doctorate level. Included in the counts of doctorate degrees are the first professional medical degrees (M.D., D.O., D.D.S., D.M.D., D.V.M., or equivalent).

A01—without a medical school

A02—with a medical school

B. Comprehensive Institutions

These institutions are characterized by a strong, diverse post-baccalaureate program (including first professional), but do not engage in significant doctoral-level education. Specifically, this category includes institutions not considered specialized schools in which the number of doctoral-level degrees granted is less than 30 or in which fewer than 3 doctoral-level programs are offered. In addition, these institutions must grant a minimum of 30 post-baccalaureate degrees and either grant degrees in 3 or more post-baccalaureate programs or have an interdisciplinary program at the post-baccalaureate level.

B01—without a medical school

B02—with a medical school

C. General Baccalaureate Institutions

These institutions are characterized by their primary emphasis on general undergraduate, baccalaureate education. They are not significantly engaged in post-baccalaureate education. Included are institutions not considered specialized institutions in which the number of post-baccalaureate degrees granted is less than 30 or in which fewer than 3 post-baccalaureate level programs are offered. Such institutions must also either (a) grant baccalaureate degrees in 3 or more baccalaureate programs, or (b) offer a baccalaureate program in interdisciplinary studies. In addition, over 75 percent of the degrees granted must be at the baccalaureate level or above.

[2] This information is quoted from the National Center for Education Statistics Announcement, "NCES Changes Classification of Higher Education Institutions," April 7, 1981 (NCES 81-404).

D. Professional and Specialized Institutions

These are baccalaureate or post-baccalaureate institutions that are characterized by a programmatic emphasis in one area, usually a professional field such as business or engineering. The programmatic emphasis is measured by the percentage of degrees granted in one program area. An institution granting over 60 percent of its degrees in one field, or granting over half of its degrees in one field *and* granting degrees in fewer than 5 baccalaureate programs is considered to be a professional or specialized institution.

D01. Divinity Institutions
Institutions in which the number of professional theological degrees plus the number of other degrees granted in theology (2300 field in the HEGIS[3] Taxonomy) exceed 60 percent of all degrees awarded. As an alternative, the number of theological degrees awarded may exceed only 50 percent of all degrees awarded and the number of baccalaureate programs offered may be fewer than 5.

D02. Medical Institutions
Institutions which are primarily engaged in health science education and which offer first professional medical degrees such as M.D., D.O., D.D.S., and D.V.M. These institutions are those (a) in which the number of professional health science degrees (medicine, dentistry, osteopathy, veterinary medicine) granted, plus the number of other health science degrees (1200 field in the HEGIS Taxonomy), exceed 60 percent of all degrees awarded; or, in which the number of health science degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5; and (b) which confer first-professional medical degrees.

D03. Other Health Institutions
Institutions which are primarily engaged in health science and which satisfy criterion (a) in D02 above but which do *not* confer first-professional medical degrees (M.D., D.D.S., D.O., D.V.M.).

D04. Engineering Schools
Institutions in which the number of degrees awarded in the area of engineering (0900 field in the HEGIS Taxonomy) exceed 60 percent of all degrees awarded; or in which the number of engineering degrees awarded exceed 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D05. Business and Management Schools
Institutions which confer over 60 percent of their degrees in the area of business and management science (0500 field in the HEGIS Taxonomy); or, in which the number of such degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D08. Education Schools
Institutions which confer over 60 percent of their degrees in education (0800 field in the HEGIS Taxonomy); or, in which the number of education degrees awarded exceeds 50 percent of all degrees awarded and the number of baccalaureate programs offered is fewer than 5.

D09. U.S. Service Schools
Schools under Federal Control.

D10. Other Specialized or Professional Schools
Institutions which grant degrees in *fewer than three programs* at the baccalaureate level, master's level, and the doctorate level, and which did *not* confer over 50 percent of their degrees in any of the above categories.

[3] HEGIS—Higher Education General Information Survey.

Table II-1. Doctorate-granting institutions in the 1982 survey

NCES CODE	
	ALABAMA
A02	AUBURN UNIVERSITY
	GRADUATE SCHOOL (MAIN CAMPUS)
	GRADUATE SCHOOL AT MONTGOMERY
A01	THE UNIVERSITY OF ALABAMA
B02	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B02	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
B02	UNIVERSITY OF SOUTH ALABAMA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	ALASKA
C01	UNIVERSITY OF ALASKA AT FAIRBANKS
	ARIZONA
A01	ARIZONA STATE UNIVERSITY
B01	NORTHERN ARIZONA UNIVERSITY
A02	UNIVERSITY OF ARIZONA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	ARKANSAS
A01	UNIVERSITY OF ARKANSAS
D02	UNIVERSITY OF ARKANSAS - MED SCI CAMPUS
	CALIFORNIA
B01	BIOLA UNIVERSITY
D10	CALIF SCH OF PROF PSYCH - BERKELEY
D10	CALIF SCH OF PROF PSYCH - FRESNO
D10	CALIF SCH OF PROF PSYCH - LOS ANGELES
D10	CALIF SCH OF PROF PSYCH - SAN DIEGO
D10	CALIFORNIA INSTITUTE OF INTEGRAL STUDIES
A01	CALIFORNIA INSTITUTE OF TECHNOLOGY
A01	CLAREMONT UNIV CENTER & GRADUATE SCHOOL
D02*	DREW POST-GRADUATE MEDICAL SCHOOL
D01	FULLER THEOLOGICAL SEMINARY
B01	GOLDEN GATE UNIVERSITY
D02	LOMA LINDA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	RAND GRADUATE INSTITUTE POLICY STUDIES
B01	SAN DIEGO STATE UNIVERSITY
A02	STANFORD UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D10	THE FIELDING INSTITUTE
D10	THE WRIGHT INSTITUTE
A01	UNIVERSITY OF CALIF AT BERKELEY
A02	UNIVERSITY OF CALIF AT DAVIS
A02	UNIVERSITY OF CALIF AT IRVINE
	GRADUATE SCHOOL
	CALIFORNIA COLLEGE OF MEDICINE
A02	UNIVERSITY OF CALIF AT LOS ANGELES
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF CALIF AT RIVERSIDE
A02	UNIVERSITY OF CALIF AT SAN DIEGO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	VERSITY OF CALIF AT SAN FRANCISCO
	RSITY OF CALIF AT SANTA BARBARA
	RSITY OF CALIF AT SANTA CRUZ
	RSITY OF SANTA CLARA
	VERSITY OF SOUTHERN CALIFORNIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B02	UNIVERSITY OF THE PACIFIC
A01	US INTERNATIONAL UNIVERSITY
D09	US NAVAL POSTGRADUATE SCHOOL
	COLORADO
D04	COLORADO SCHOOL OF MINES
A02	COLORADO STATE UNIVERSITY
A02	UNIVERSITY OF COLORADO
	GRADUATE SCHOOL AT BOULDER
	GRADUATE SCHOOL OF PUBLIC AFFAIRS
	GRADUATE SCHOOL AT DENVER
	GRADUATE SCHOOL AT COLORADO SPRINGS
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF DENVER
A01	UNIVERSITY OF NORTHERN COLORADO
	CONNECTICUT
A02	UNIVERSITY OF CONNECTICUT
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	WESLEYAN UNIVERSITY
A02	YALE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF NURSING

NCES CODE	
	DELAWARE
A01	UNIVERSITY OF DELAWARE
	DISTRICT OF COLUMBIA
A01	AMERICAN UNIVERSITY
A01	CATHOLIC UNIVERSITY OF AMERICA
A02	GEORGE WASHINGTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE AND HEALTH SCIENCES
A02	GEORGETOWN UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	HOWARD UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	FLORIDA
B01	FLORIDA ATLANTIC UNIVERSITY
B01	FLORIDA INSTITUTE OF TECHNOLOGY
A01	FLORIDA STATE UNIVERSITY
B01*	HEED UNIVERSITY
A01	NOVA UNIVERSITY
B01	UNIVERSITY OF CENTRAL FLORIDA
A02	UNIVERSITY OF FLORIDA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF MIAMI
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF SOUTH FLORIDA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	GEORGIA
B01	ATLANTA UNIVERSITY
A02	EMORY UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D04	GEORGIA INSTITUTE OF TECHNOLOGY
A01	GEORGIA STATE UNIVERSITY
D02	MEDICAL COLLEGE OF GEORGIA
D02	MOREHOUSE COLLEGE
A02	UNIVERSITY OF GEORGIA
	HAWAII
A02	UNIVERSITY OF HAWAII AT MANOA
	GRADUATE SCHOOL
	JOHN A. BURNS SCHOOL OF MEDICINE
	IDAHO
B01	IDAHO STATE UNIVERSITY
A01	UNIVERSITY OF IDAHO
	ILLINOIS
D02	CHICAGO COLL OF OSTEO MEDICINE
B01	DE PAUL UNIVERSITY
A01	ILLINOIS INSTITUTE OF TECHNOLOGY
A01	ILLINOIS STATE UNIVERSITY
A02	LOYOLA UNIVERSITY OF CHICAGO
	GRADUATE SCHOOL
	GRAD SCH AT THE MEDICAL CENTER
	STRITCH SCHOOL OF MEDICINE
A01	NORTHERN ILLINOIS UNIVERSITY
A02	NORTHWESTERN UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL SCHOOL
D02	RUSH UNIVERSITY
A02	SOUTHERN ILLINOIS UNIV AT CARBONDALE
D02	UNIV OF ILLINOIS MED CENTER - CHICAGO
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF CHICAGO
	GRADUATE SCHOOL
	PRITZKER SCHOOL OF MEDICINE
D02	UNIVERSITY OF HEALTH SCIENCES
A01	UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE
A02	UNIVERSITY OF ILLINOIS - URBANA
	INDIANA
A01	BALL STATE UNIVERSITY
B01	INDIANA STATE UNIVERSITY
A02	INDIANA UNIVERSITY, ALL CAMPUSES
	GRADUATE SCHOOL-BLOOMINGTON
	FORT WAYNE CAMPUS
	SOUTH BEND CAMPUS
	SCHOOL OF MEDICINE
A02	PURDUE UNIVERSITY
	GRADUATE SCHOOL
	CALUMET
A01	UNIVERSITY OF NOTRE DAME

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

Table II-1. Doctorate-granting institutions in the 1982 survey—Continued

NCES CODE	IOWA
D02	COLLEGE OF OSTEOPATHIC MED & SURGERY
A02	IOWA STATE UNIVERSITY OF SCI & TECH
A02	UNIVERSITY OF IOWA
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
B01	UNIVERSITY OF NORTHERN IOWA
	KANSAS
A02	KANSAS STATE UNIV OF AGR & APPLIED SCI
A02	UNIVERSITY OF KANSAS
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	WICHITA STATE UNIVERSITY
	KENTUCKY
A02	UNIVERSITY OF KENTUCKY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	UNIVERSITY OF LOUISVILLE
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	LOUISIANA
A02	LOUISIANA STATE UNIVERSITY SYSTEM
	GRADUATE SCHOOL IN BATON ROUGE
	SCHOOL OF MEDICINE IN SHREVEPORT
	MEDICAL CENTER AT NEW ORLEANS
B01	LOUISIANA TECH UNIVERSITY
B01	NORTHEAST LOUISIANA UNIVERSITY
A02	TULANE UNIVERSITY OF LOUISIANA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF PUBLIC HEALTH & TROPICAL MED
B01	UNIVERSITY OF NEW ORLEANS
B01	UNIVERSITY OF SOUTHWESTERN LOUISIANA
	MAINE
B01	UNIVERSITY OF MAINE AT ORONO
	MARYLAND
A02	JOHNS HOPKINS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF HYGIENE AND PUBLIC HEALTH
	SCHOOL OF MEDICINE
D09	UNIFORMED SERV UNIV OF THE HLTH SCIENCES
D02	UNIVERSITY OF MARYLAND - BALT PROF SCH
B01	UNIVERSITY OF MARYLAND - BALTIMORE CNTY
A01	UNIVERSITY OF MARYLAND - COLLEGE PARK
	MASSACHUSETTS
A01	BOSTON COLLEGE
A02	BOSTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF DENTISTRY
A01	BRANDEIS UNIVERSITY
B01	CLARK UNIVERSITY
A02	HARVARD UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF PUBLIC HEALTH
	KENNEDY SCH OF GOVT
	HARVARD MEDICAL SCHOOL
D03	MASS COLLEGE OF PHARMACY/ALLIED HEALTH
A01	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
A01	NORTHEASTERN UNIVERSITY
B01	SMITH COLLEGE
A02	TUFTS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF NUTRITION
	SCHOOL OF MEDICINE
B01	UNIVERSITY OF LOWELL
A01	UNIVERSITY OF MASSACHUSETTS AT AMHERST
D02	UNIVERSITY OF MASSACHUSETTS AT WORCESTER
D10*	WOODS HOLE OCEANOGRAPHIC INSTITUTION
D04	WORCESTER POLYTECHNIC INSTITUTE
	MICHIGAN
B01	CENTRAL MICHIGAN UNIVERSITY
A02	MICHIGAN STATE UNIVERSITY
B01	MICHIGAN TECHNOLOGICAL UNIVERSITY
B01	OAKLAND UNIVERSITY
B02	UNIVERSITY OF DETROIT
A02	UNIVERSITY OF MICHIGAN
	GRADUATE SCHOOL AT ANN ARBOR
	GRADUATE SCHOOL AT DEARBORN
	MEDICAL SCHOOL AT ANN ARBOR
A02	WAYNE STATE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	WESTERN MICHIGAN UNIVERSITY

NCES CODE	MINNESOTA
A02	UNIVERSITY OF MINNESOTA
	GRADUATE SCHOOL AT MINNEAPOLIS
	GRADUATE SCHOOL AT DULUTH
	MINNEAPOLIS MEDICAL SCHOOL
	MAYO GRADUATE SCHOOL OF MEDICINE
	DULUTH SCHOOL OF MEDICINE
	MISSISSIPPI
A01	MISSISSIPPI STATE UNIVERSITY
A02	UNIVERSITY OF MISSISSIPPI
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF SOUTHERN MISSISSIPPI
	MISSOURI
D02	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED
A02	ST LOUIS UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	UNIVERSITY OF HEALTH SCIENCES
A02	UNIVERSITY OF MISSOURI - COLUMBIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF MISSOURI - KANSAS CITY
D04	UNIVERSITY OF MISSOURI - ROLLA
B01	UNIVERSITY OF MISSOURI - ST LOUIS
A02	WASHINGTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	MONTANA
B01	MONTANA STATE UNIVERSITY
A01	UNIVERSITY OF MONTANA
	NEBRASKA
B02	CREIGHTON UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF NEBRASKA - LINCOLN
B01	UNIVERSITY OF NEBRASKA - OMAHA
D02	UNIVERSITY OF NEBRASKA MEDICAL CENTER
	NEVADA
B02	UNIVERSITY OF NEVADA AT RENO
	GRADUATE SCHOOL
	SCHOOL OF MEDICAL SCIENCES
	NEW HAMPSHIRE
B02	DARTMOUTH COLLEGE
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIVERSITY OF NEW HAMPSHIRE
	NEW JERSEY
B02	FAIRLEIGH DICKINSON UNIVERSITY
	RUTHERFORD CAMPUS
	TEANECK CAMPUS
	MADISON CAMPUS
D04	NEW JERSEY INSTITUTE OF TECHNOLOGY
A01	PRINCETON UNIVERSITY
A01	RUTGERS THE STATE UNIVERSITY
	GRADUATE SCHOOL AT NEW BRUNSWICK
	GRADUATE SCHOOL AT NEWARK
	SCHOOL OF CRIMINAL JUSTICE
B01	SETON HALL UNIVERSITY
D04	STEVENS INSTITUTE OF TECHNOLOGY
D02	UNIV OF MED AND DENT OF NEW JERSEY
	RUTGERS MEDICAL SCHOOL
	GRAD SCH OF BIOMED SCI/NJ MED SCHOOL
	NJ SCHOOL OF OSTEOPATHIC MED
	NEW JERSEY DENTAL SCHOOL
	NEW JERSEY MEDICAL SCHOOL AT NEWARK
	NEW MEXICO
B01	NEW MEXICO INSTITUTE OF MINING AND TECH
A01	NEW MEXICO STATE UNIVERSITY
A02	UNIVERSITY OF NEW MEXICO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

Table II-1. Doctorate-granting institutions in the 1982 survey—Continued

NCES CODE	NEW YORK
A01	ADELPHI UNIVERSITY
D02	ALBANY MEDICAL COLLEGE
C01	ALFRED UNIVERSITY
D04	CLARKSON COLLEGE OF TECHNOLOGY
A02	COLUMBIA UNIV MAIN DIVISION
	GRADUATE SCHOOL
	COLLEGE OF PHYS AND SURGEONS
D08	COLUMBIA UNIV TEACHERS COLLEGE
A02	CORNELL UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL COLLEGE
	GRADUATE SCHOOL OF MEDICAL SCIENCES
B01	CUNY CITY COLLEGE
A01	CUNY GRADUATE SCHOOL AND UNIV CENTER
B01	CUNY HUNTER COLLEGE
D02	CUNY MOUNT SINAI SCHOOL OF MEDICINE
A01	FORDHAM UNIVERSITY
B01	HOFSTRA UNIVERSITY
B01	LONG ISLAND UNIVERSITY
	BROOKLYN CENTER
	C. W. POST CENTER
	A & M SCHWARTZ COL OF PHARMACY HEA SCI
A01	NEW SCHOOL FOR SOCIAL RESEARCH
B01	NEW YORK INSTITUTE OF TECHNOLOGY
	GRADUATE SCHOOL
	NEW YORK COLLEGE OF OSTEOPATHIC MEDICINE
D02	NEW YORK MEDICAL COLLEGE
A02	NEW YORK UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	COLLEGE OF DENTISTRY
B01	PACE UNIVERSITY
D04	POLYTECHNIC INSTITUTE OF NEW YORK
A01	RENSSELAER POLYTECHNIC INSTITUTE
A01	ROCKEFELLER UNIVERSITY
B01	ST BONAVENTURE UNIVERSITY
A01	ST JOHN'S UNIVERSITY
A01	SUNY - ALBANY
A01	SUNY - BINGHAMTON
A02	SUNY - BUFFALO
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	SUNY - COLL OF ENV SCIENCE AND FORESTRY
D02	SUNY - DOWNSTATE MEDICAL CENTER
A02	SUNY - STONY BROOK
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	SUNY - UPSTATE MEDICAL CENTER
D03	SUNY STATE COLLEGE OF OPTOMETRY
A01	SYRACUSE UNIVERSITY
B01	UNION COLLEGE(NY)
A02	UNIVERSITY OF ROCHESTER
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE AND DENTISTRY
A02	YESHIVA UNIVERSITY
	GRADUATE SCHOOL
	ALBERT EINSTEIN COLLEGE OF MEDICINE
	NORTH CAROLINA
A02	DUKE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	EAST CAROLINA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	NORTH CAROLINA STATE UNIV AT RALEIGH
A02	UNIV OF NORTH CAROLINA AT CHAPEL HILL
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A01	UNIV OF NORTH CAROLINA AT GREENSBORO
B02	WAKE FOREST UNIVERSITY
	GRADUATE SCHOOL
	BOWMAN GRAY SCHOOL OF MEDICINE
	NORTH DAKOTA
B01	NORTH DAKOTA STATE UNIVERSITY
A02	UNIVERSITY OF NORTH DAKOTA

NCES CODE	OHIO
D09	AIR FORCE INSTITUTE OF TECHNOLOGY
A01	BOWLING GREEN STATE UNIVERSITY
A02	CASE WESTERN RESERVE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	CLEVELAND STATE UNIVERSITY
A01	KENT STATE UNIVERSITY
D02	MEDICAL COLLEGE OF OHIO AT TOLEDO
A01	MIAMI UNIVERSITY
D11	NE OHIO UNIV MED SCHOOL
A02	OHIO STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A02	OHIO UNIVERSITY
	GRADUATE COLLEGE
	COLLEGE OF OSTEOPATHIC MEDICINE
A01	UNION OF EXPERIMENTNG COLLEGES & UNIVS
A01	UNIVERSITY OF AKRON
A02	UNIVERSITY OF CINCINNATI
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
B01	UNIVERSITY OF DAYTON
A01	UNIVERSITY OF TOLEDO
B02	WRIGHT STATE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	OKLAHOMA
A02	OKLAHOMA STATE UNIVERSITY
B01	ORAL ROBERTS UNIVERSITY
A02	UNIVERSITY OF OKLAHOMA
	GRADUATE COLLEGE
	HEALTH SCIENCE CENTER
B01	UNIVERSITY OF TULSA
	OREGON
D10	OREGON GRADUATE CENTER
D02	OREGON HEALTH SCIENCES UNIVERSITY
A01	OREGON STATE UNIVERSITY
B01	PORTLAND STATE UNIVERSITY
A01	UNIVERSITY OF OREGON
	PENNSYLVANIA
A01	BRYN MAWR COLLEGE
A01	CARNEGIE-MELLON UNIVERSITY
B01	DREXEL UNIVERSITY
B01	DUQUESNE UNIVERSITY
D02	HAHNEMANN UNIVERSITY
A01	LEHIGH UNIVERSITY
A02	PENNSYLVANIA STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
D02	PHILA COLLEGE OF OSTEOPATHIC MEDICINE
D03	PHILADELPHIA COLL OF PHARMACY AND SCI
A02	TEMPLE UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	SCHOOL OF PHARMACY
	SCHOOL OF DENTISTRY
D02	THE MEDICAL COLLEGE OF PENNSYLVANIA
D02	THOMAS JEFFERSON UNIVERSITY
A02	UNIVERSITY OF PENNSYLVANIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	UNIVERSITY OF PITTSBURGH
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
B01	VILLANOVA UNIVERSITY
	RHODE ISLAND
A02	BROWN UNIVERSITY
B01	PROVIDENCE COLLEGE
A01	UNIVERSITY OF RHODE ISLAND
	SOUTH CAROLINA
B01	CLEMSON UNIVERSITY
D02	MEDICAL UNIVERSITY OF SOUTH CAROLINA
A01	UNIVERSITY OF SOUTH CAROLINA
	GRADUATE SCHOOL
	MEDICAL SCHOOL
	SOUTH DAKOTA
D04	SOUTH DAKOTA SCHOOL OF MINES AND TECH
B01	SOUTH DAKOTA STATE UNIVERSITY
B02	UNIVERSITY OF SOUTH DAKOTA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE

• NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

Table II-1. Doctorate-granting institutions in the 1982 survey—Continued

NCES CODE	TENNESSEE
B01	EAST TENNESSEE STATE UNIVERSITY
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
D02	MEHARRY MEDICAL COLLEGE
A01	MEMPHIS STATE UNIVERSITY
B01	TENNESSEE TECHNOLOGICAL UNIVERSITY
A02	UNIVERSITY OF TENNESSEE AT KNOXVILLE
D02	UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE
A02	VANDERBILT UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	TEXAS
D02	BAYLOR COLLEGE OF DENTISTRY
D02	BAYLOR COLLEGE OF MEDICINE
A01	BAYLOR UNIVERSITY
B01	EAST TEXAS STATE UNIVERSITY
B01	LAMAR UNIVERSITY
A01	NORTH TEXAS STATE UNIVERSITY
A01	RICE UNIVERSITY
B01	SAM HOUSTON STATE UNIVERSITY
A01	SOUTHERN METHODIST UNIVERSITY
B01	STEPHEN F. AUSTIN STATE UNIVERSITY
B01	TEXAS A & I UNIVERSITY
A02	TEXAS A & M UNIVERSITY
B01	TEXAS CHRISTIAN UNIVERSITY
D02	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE
A01	TEXAS TECH UNIVERSITY
	GRADUATE SCHOOL
	HEALTH SCIENCES CENTER
A01	TEXAS WOMAN'S UNIVERSITY
B01	UNIV OF TEXAS AT ARLINGTON
A01	UNIV OF TEXAS AT AUSTIN
B01	UNIV OF TEXAS AT DALLAS
B01	UNIV OF TEXAS AT EL PASO
D02	UNIV OF TEXAS HLTH SCI CTR AT DALLAS
D02	UNIV OF TEXAS HLTH SCI CTR AT HOUSTON
D02	UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO
D02	UNIV OF TEXAS MED BRANCH AT GALVESTON
A01	UNIVERSITY OF HOUSTON
	GRADUATE SCHOOL
	VICTORIA CAMPUS
D02*	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER
	UTAH
A01	BRIGHAM YOUNG UNIVERSITY
A02	UNIVERSITY OF UTAH
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
A01	UTAH STATE UNIVERSITY
	VERMONT
B02	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE
	GRADUATE SCHOOL
	COLLEGE OF MEDICINE
	VIRGINIA
B01	COLLEGE OF WILLIAM AND MARY
D02	EASTERN VIRGINIA MEDICAL SCHOOL
B01	GEORGE MASON UNIVERSITY
D04*	INSTITUTE OF TEXTILE TECHNOLOGY
B01	OLD DOMINION UNIVERSITY
A02	UNIVERSITY OF VIRGINIA
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
A02	VIRGINIA COMMONWEALTH UNIVERSITY
	GRADUATE SCHOOL
	MEDICAL COLLEGE OF VIRGINIA
A01	VIRGINIA POLYTECHNIC INST AND STATE UNIV
	WASHINGTON
A02	UNIVERSITY OF WASHINGTON
	GRADUATE SCHOOL
	SCHOOL OF PUBLIC HEALTH AND COMM MED
	SCHOOL OF MEDICINE
A02	WASHINGTON STATE UNIVERSITY
	WEST VIRGINIA
B01	MARSHALL UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
D02	WEST VIRGINIA SCH OF OSTEOPATHIC MED
A02	WEST VIRGINIA UNIVERSITY
	GRADUATE SCHOOL
	SCHOOL OF MEDICINE
	WISCONSIN
D10	INSTITUTE OF PAPER CHEMISTRY
A02	MARQUETTE UNIVERSITY
D02	MEDICAL COLLEGE OF WISCONSIN
A02	UNIVERSITY OF WISCONSIN - MADISON
	GRADUATE SCHOOL
	MEDICAL SCHOOL
A01	UNIVERSITY OF WISCONSIN - MILWAUKEE

NCES CODE	WYOMING
A01	UNIVERSITY OF WYOMING
	PUERTO RICO
D10	CARIBBEAN CTR FOR ADV STD
C01	CATHOLIC UNIVERSITY OF PUERTO RICO
	GRADUATE SCHOOL
	PONCE SCHOOL OF MEDICINE
B01	UNIVERSITY OF PUERTO RICO
B01	UNIVERSITY OF PUERTO RICO - RIO PIEDRAS
D02	UNIVERSITY OF PUERTO RICO MED SCI CAMPUS

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

Table II-2. Master's-granting institutions in the 1982 survey

NCES CODE	ALABAMA
B01	ALABAMA A & M UNIVERSITY
B01	ALABAMA STATE UNIVERSITY
B01	JACKSONVILLE STATE UNIVERSITY
B01	SAMFORD UNIVERSITY
B01	TROY STATE UNIVERSITY AT MONTGOMERY
B02	TUSKEGEE INSTITUTE
B01	UNIVERSITY OF MONTEVALLO
B01	UNIVERSITY OF NORTH ALABAMA
	ALASKA
C01	UNIV OF ALASKA AT ANCHORAGE
C01	UNIV OF ALASKA SOUTHEAST
	ARKANSAS
B01	ARKANSAS STATE UNIVERSITY
B01	HENDERSON STATE UNIVERSITY
B01	UNIVERSITY OF ARKANSAS AT LITTLE ROCK
B01	UNIVERSITY OF CENTRAL ARKANSAS
	CALIFORNIA
B01	AZUSA PACIFIC UNIVERSITY
B01	CALIF POLY STATE UNIV AT SAN LUIS OBISPO
B01	CALIF STATE COLLEGE AT SAN BERNARDINO
B01	CALIF STATE COLLEGE OF STANISLAUS
B01	CALIF STATE POLYTECHNIC UNIV AT POMONA
B01	CALIF STATE UNIV AT DOMINGUEZ HILLS
B01	CALIF STATE UNIV AT FULLERTON
B01	CALIF STATE UNIV AT HAYWARD
B01	CALIF STATE UNIV AT LONG BEACH
B01	CALIF STATE UNIV AT LOS ANGELES
B01	CALIF STATE UNIVERSITY AT CHICO
B01	CALIF STATE UNIVERSITY AT FRESNO
B01	CALIF STATE UNIVERSITY AT NORTHRIDGE
B01	CALIF STATE UNIVERSITY AT SACRAMENTO
B01	CALIFORNIA LUTHERAN COLLEGE
B01	CALIFORNIA STATE COLLEGE AT BAKERSFIELD
B01	CHAPMAN COLLEGE
B01	DOMINICAN COLLEGE OF SAN RAFAEL
D04	HARVEY MUDD COLLEGE
B01	HUMBOLDT STATE UNIVERSITY
B01	JOHN F KENNEDY UNIVERSITY
B01	LOYOLA MARYMOUNT UNIVERSITY
B01	MONTEREY INST OF INTL STUDIES
D05	NATIONAL UNIVERSITY
D04	NORTHROP UNIVERSITY
C01	OCCIDENTAL COLLEGE
C01*	PACIFIC STATES UNIVERSITY
B01	PEPPERDINE UNIVERSITY
B01	SAN FRANCISCO STATE UNIVERSITY
B01	SAN JOSE STATE UNIVERSITY
B01	SONOMA STATE UNIVERSITY
B01	UNIVERSITY OF LA VERNE
D05	UNIVERSITY OF REDLANDS
B01	UNIVERSITY OF SAN DIEGO
B01	UNIVERSITY OF SAN FRANCISCO
B01	WEST COAST UNIVERSITY
B01	WHITTIER COLLEGE
	COLORADO
B01	ADAMS STATE UNIVERSITY
B01	WESTERN STATE COLLEGE OF COLORADO
	CONNECTICUT
B01	CENTRAL CONNECTICUT STATE UNIVERSITY
B01	CONNECTICUT COLLEGE
C01	QUINNIPIAC COLLEGE
B01	SOUTHERN CONNECTICUT STATE COLLEGE
B01	ST JOSEPH COLLEGE
D05	THE HARTFORD GRADUATE CENTER
B01	TRINITY COLLEGE
B01	UNIVERSITY OF BRIDGEPORT
B01	UNIVERSITY OF HARTFORD
B01	UNIVERSITY OF NEW HAVEN
B01	WESTERN CONNECTICUT STATE UNIVERSITY
	DISTRICT OF COLUMBIA
B01	GALLAUDET COLLEGE
B01	UNIVERSITY OF THE DISTRICT OF COLUMBIA
	FLORIDA
B01	BARRY COLLEGE
C01	BISCAYNE COLLEGE
B01	FLORIDA A & M UNIVERSITY
B01	FLORIDA INTERNATIONAL UNIVERSITY
C01	JACKSONVILLE UNIVERSITY
B01	ROLLINS COLLEGE
B01	STETSON UNIVERSITY
B01	UNIVERSITY OF WEST FLORIDA

NCES CODE	GEORGIA
B01	ARMSTRONG STATE COLLEGE
B01	AUGUSTA COLLEGE
B01	GEORGIA COLLEGE
B01	GEORGIA SOUTHERN COLLEGE
B01	VALDOSTA STATE COLLEGE
B01	WEST GEORGIA COLLEGE
	ILLINOIS
B01	BRADLEY UNIVERSITY
B01	CHICAGO STATE UNIVERSITY
B01	EASTERN ILLINOIS UNIVERSITY
B01	GEORGE WILLIAMS COLLEGE
B01	GOVERNORS STATE UNIVERSITY
D04	MIDWEST COLLEGE OF ENGINEERING
B01	NORTHEASTERN ILLINOIS UNIVERSITY
B01	ROOSEVELT UNIVERSITY
B01	SANGAMON STATE UNIVERSITY
B02	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE
B01	WESTERN ILLINOIS UNIVERSITY
	INDIANA
B01	BUTLER UNIVERSITY
B01	DE PAUW UNIVERSITY
B01	INDIANA CENTRAL UNIVERSITY
D04	ROSE-HULMAN INSTITUTE OF TECHNOLOGY
B01	SAINT FRANCIS COLLEGE
B01	UNIVERSITY OF EVANSVILLE
B01	VALPARAISO UNIVERSITY
	IOWA
B01	DRAKE UNIVERSITY
C01	LORAS COLLEGE
	KANSAS
B01	EMPORIA STATE UNIVERSITY - KANSAS
B01	FORT HAYS STATE UNIVERSITY
B01	PITTSBURG STATE UNIVERSITY
C01	WASHBURN UNIV OF TOPEKA
	KENTUCKY
B01	EASTERN KENTUCKY UNIVERSITY
B01	MOREHEAD STATE UNIVERSITY
B01	MURRAY STATE UNIVERSITY
B01	SPALDING COLLEGE
B01	WESTERN KENTUCKY UNIVERSITY
	LOUISIANA
B01	GRAMBLING STATE UNIVERSITY
B01	LOYOLA UNIVERSITY IN NEW ORLEANS
B01	MCNEESE STATE UNIVERSITY
B01	NICHOLLS STATE UNIVERSITY
B01	NORTHWESTERN STATE UNIV OF LOUISIANA
B01	SOUTHEASTERN LOUISIANA UNIVERSITY
B01	SOUTHERN UNIVERSITY A & M COLLEGE
	MARYLAND
C01	COPPIN STATE COLLEGE
B01	FROSTBURG STATE COLLEGE
B01	HOOD COLLEGE
B01	LOYOLA COLLEGE
B01	MORGAN STATE UNIVERSITY
B01	TOWSON STATE UNIVERSITY
B01	UNIVERSITY OF BALTIMORE
C01	WASHINGTON COLLEGE
	MASSACHUSETTS
B01	AMERICAN INTERNATIONAL COLLEGE
B01	ANNA MARIA COLLEGE
B01	ASSUMPTION COLLEGE
B01	BRIDGEWATER STATE COLLEGE
B01	EMERSON COLLEGE
B01	FRAMINGHAM STATE COLLEGE
C01	MOUNT HOLYOKE COLLEGE
B01	SALEM STATE COLLEGE
B01	SOUTHEASTERN MASSACHUSETTS UNIVERSITY
B01	SUFFOLK UNIVERSITY
C01	UNIV OF MASSACHUSETTS-BOSTON
B01	WESTERN NEW ENGLAND COL
C01	WILLIAMS COLLEGE
B01	WORCESTER STATE COLLEGE
	MICHIGAN
B01	ANDREWS UNIVERSITY
B01	EASTERN MICHIGAN UNIVERSITY
B01	NORTHERN MICHIGAN UNIVERSITY

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

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NCES CODE	
	MINNESOTA
B01	BEMIDJI STATE UNIVERSITY
B01	MANKATO STATE UNIVERSITY
B01	MOORHEAD STATE UNIVERSITY
B01	ST CLOUD STATE UNIVERSITY
B01	ST MARY'S COLLEGE
	MISSISSIPPI
B01	JACKSON STATE UNIVERSITY
B01	MISSISSIPPI COLLEGE
B01	MISSISSIPPI UNIVERSITY FOR WOMEN
	MISSOURI
B01	CENTRAL MISSOURI STATE UNIVERSITY
B01	NORTHEAST MISSOURI STATE UNIVERSITY
B01	NORTHWEST MISSOURI STATE UNIVERSITY
B01	SOUTHEAST MISSOURI STATE UNIVERSITY
B01	SOUTHWEST MISSOURI STATE UNIVERSITY
	MONTANA
D04	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY
	NEBRASKA
B01	KEARNEY STATE COLLEGE
	NEVADA
B01	UNIVERSITY OF NEVADA AT LAS VEGAS
	NEW HAMPSHIRE
B01	RIVIER COLLEGE
	NEW JERSEY
A01	DREW UNIVERSITY
B01	KEAN COLLEGE OF NEW JERSEY
B01	MONMOUTH COLLEGE(NJ)
B01	MONTCLAIR STATE COLLEGE
B01	TRENTON STATE COLLEGE
B01	WILLIAM PATERSON COLLEGE
	NEW MEXICO
B01	EASTERN NEW MEXICO UNIVERSITY
B01	NEW MEXICO HIGHLANDS UNIVERSITY
	NEW YORK
C01	COLLEGE OF NEW ROCHELLE
B01	COLLEGE OF ST ROSE
C01	COOPER UNION
D05	CUNY BERNARD BARUCH COLLEGE
B01	CUNY BROOKLYN COLLEGE
B01*	CUNY COLLEGE OF STATEN ISLAND ST GEORGE
B01	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE
B01	CUNY LEHMAN COLLEGE
B01	CUNY QUEENS COLLEGE
B01	IONA COLLEGE
B01	ITHACA COLLEGE
B01	MANHATTAN COLLEGE
C01	MARIST COLLEGE
B01	NIAGARA UNIVERSITY
B01	PRATT INSTITUTE
B01	ROCHESTER INSTITUTE OF TECHNOLOGY
B01	RUSSELL SAGE COLLEGE
B01	SARAH LAWRENCE COLLEGE
B01	SUNY COLLEGE AT BROCKPORT
B01	SUNY COLLEGE AT BUFFALO
B01	SUNY COLLEGE AT CORTLAND
B01	SUNY COLLEGE AT FREDONIA
B01	SUNY COLLEGE AT GENESEO
B01	SUNY COLLEGE AT NEW PALTZ
B01	SUNY COLLEGE AT ONEONTA
B01	SUNY COLLEGE AT OSWEGO
B01	SUNY COLLEGE AT PLATTSBURGH
B01	SUNY COLLEGE AT POTSDAM
C01	VASSAR COLLEGE
B01	WAGNER COLLEGE
	NORTH CAROLINA
B01	APPALACHIAN STATE UNIVERSITY
B01	NORTH CAROLINA A & T STATE UNIVERSITY
B01	NORTH CAROLINA CENTRAL UNIVERSITY
B01	UNIV OF NORTH CAROLINA AT CHARLOTTE
B01	WESTERN CAROLINA UNIVERSITY
	OHIO
B01	ANTIOCH UNIVERSITY
B01	JOHN CARROLL UNIVERSITY
B01	XAVIER UNIVERSITY
B01	YOUNGSTOWN STATE UNIVERSITY

NCES CODE	
	OKLAHOMA
C01	EAST CENTRAL OKLAHOMA STATE UNIV
B01	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
	OREGON
C01	PACIFIC UNIVERSITY
B01	SOUTHERN OREGON STATE COLLEGE
B01	UNIVERSITY OF PORTLAND
D08	WESTERN OREGON STATE COLLEGE
	PENNSYLVANIA
B01	BLOOMSBURG STATE COLLEGE
B01	BUCKNELL UNIVERSITY
B01	CALIFORNIA STATE COLLEGE
C01	CHEYNEY STATE COLLEGE
B01	CLARION STATE COLLEGE
B01	EAST STROUDSBURG STATE COLLEGE
B01	EDINBORO UNIVERSITY
B01	GANNON COLLEGE
B01	INDIANA UNIVERSITY OF PENNSYLVANIA
B01	KUTZTOWN STATE COLLEGE
B01	MANSFIELD STATE COLLEGE
B01	MARYWOOD COLLEGE
B01	MILLERSVILLE STATE COLLEGE
B01	SHIPPENSBURG STATE COLLEGE
B01	SLIPPERY ROCK STATE COLLEGE
B01	ST JOSEPH'S UNIVERSITY
C01	SWARTHMORE COLLEGE
B01	UNIVERSITY OF SCRANTON
B01	WEST CHESTER UNIVERSITY
C01	WIDENER UNIVERSITY
B01	WILKES COLLEGE
	RHODE ISLAND
B01	RHODE ISLAND COLLEGE
	SOUTH CAROLINA
B01	CITADEL MILITARY COLL OF SOUTH CAROLINA
B01	COLLEGE OF CHARLESTON
C01	FURMAN UNIVERSITY
B01	WINTHROP COLLEGE
	TENNESSEE
B01	AUSTIN PEAY STATE UNIVERSITY
C01	FISK UNIVERSITY
B01	MIDDLE TENNESSEE STATE UNIVERSITY
B01	TENNESSEE STATE UNIVERSITY
B01	UNIVERSITY OF TENNESSEE AT CHATTANOOGA
	TEXAS
B01	ABILENE CHRISTIAN UNIVERSITY
B01	AMERICAN TECHNOLOGICAL UNIVERSITY
B01	ANGELO STATE UNIVERSITY
B01	CORPUS CHRISTI STATE UNIVERSITY
B01	INCARNATE WORD COLLEGE
B01	MIDWESTERN STATE UNIVERSITY
B01	PAN AMERICAN UNIVERSITY
B01	PRAIRIE VIEW A & M UNIVERSITY
B01	SOUTHWEST TEXAS STATE UNIVERSITY
B01	ST MARY'S UNIVERSITY OF SAN ANTONIO
B01	SUL ROSS STATE UNIVERSITY
B01	TARLETON STATE UNIVERSITY
B01	TEXAS SOUTHERN UNIVERSITY
B01	TRINITY UNIVERSITY
B01	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY
B01	UNIVERSITY OF TEXAS AT SAN ANTONIO
B01	UNIVERSITY OF TEXAS AT TYLER
B01	UNIVERSITY OF TEXAS OF THE PERMIAN BASIN
B01	WEST TEXAS STATE UNIVERSITY
	VERMONT
B01	GODDARD COLLEGE
C01	MIDDLEBURY COLLEGE
	VIRGINIA
B01	HAMPTON INSTITUTE
C01	HOLLINS COLLEGE
B01	JAMES MADISON UNIVERSITY
B01	LYNCHBURG COLLEGE
B01	RADFORD UNIVERSITY
B01	UNIVERSITY OF RICHMOND
B01	VIRGINIA STATE UNIVERSITY
	WASHINGTON
B01	CENTRAL WASHINGTON UNIVERSITY
B01	EASTERN WASHINGTON UNIVERSITY
B01	PACIFIC LUTHERAN UNIVERSITY
B01	SEATTLE UNIVERSITY
B01	UNIVERSITY OF PUGET SOUND
C01	WALLA WALLA COLLEGE
B01	WESTERN WASHINGTON UNIVERSITY
B01	WHITWORTH COLLEGE

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

Table II-2. Master's-granting institutions in the 1982 survey—Continued

NCES CODE	
	WEST VIRGINIA
D08	WEST VIRGINIA COLLEGE OF GRAD STUDIES
	WISCONSIN
C01	MILWAUKEE SCHOOL OF ENGINEERING
B01	UNIVERSITY OF WISCONSIN - EAU CLAIRE
B01	UNIVERSITY OF WISCONSIN - GREEN BAY
B01	UNIVERSITY OF WISCONSIN - LA CROSSE
B01	UNIVERSITY OF WISCONSIN - OSHKOSH
B01	UNIVERSITY OF WISCONSIN - PLATTEVILLE
B01	UNIVERSITY OF WISCONSIN - RIVER FALLS
B01	UNIVERSITY OF WISCONSIN - STEVENS POINT
B01	UNIVERSITY OF WISCONSIN - STOUT
B01	UNIVERSITY OF WISCONSIN - WHITEWATER
	GUAM
B01	UNIVERSITY OF GUAM
	PUERTO RICO
B01	WORLD UNIVERSITY

* NOT LISTED BY NCES; CLASS ASSIGNED BY NSF USING NCES CRITERIA

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FIELD	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	399,682	255,959	143,723	347,414	237,676	109,738	52,268	18,283	33,985
ENGINEERING	86,789	50,576	36,213	80,462	49,106	31,356	6,327	1,470	4,857
AEROSPACE	1,941	1,522	419	1,933	1,519	414	8	3	5
AGRICULTURAL	875	739	136	875	739	136	0	0	0
BIOMEDICAL	1,116	931	185	1,064	908	156	52	23	29
CHEMICAL	7,189	5,608	1,581	6,952	5,546	1,406	237	62	175
CIVIL	14,680	9,809	4,871	13,735	9,513	4,222	945	296	649
ELECTRICAL	22,057	11,533	10,484	20,609	11,293	9,316	1,408	240	1,168
ENGINEERING SCIENCE	2,286	1,364	922	1,996	1,339	657	290	25	265
INDUSTRIAL	11,764	4,057	7,707	10,901	3,816	7,085	863	241	622
MECHANICAL	11,568	7,364	4,204	10,861	7,224	3,637	707	140	567
METALLURGICAL/MATERIALS	3,124	2,478	646	3,030	2,453	577	94	25	69
MINING	449	373	76	424	351	73	25	22	3
NUCLEAR	1,301	1,042	259	1,301	1,042	259	0	0	0
PETROLEUM	586	476	110	580	470	110	6	6	0
ENGINEERING, N.E.C.	7,893	3,280	4,613	6,201	2,893	3,308	1,692	387	1,305
PHYSICAL SCIENCES	28,205	24,071	4,134	26,518	23,365	3,153	1,687	706	981
ASTRONOMY	632	590	42	632	590	42	0	0	0
CHEMISTRY	17,019	14,308	2,711	15,794	13,767	2,027	1,225	541	684
PHYSICS	10,306	9,080	1,226	10,021	8,955	1,066	285	125	160
PHYSICAL SCIENCES, N.E.C.	248	93	155	71	53	18	177	40	137
ENVIRONMENTAL SCIENCES	14,916	11,331	3,585	13,469	10,747	2,722	1,447	584	863
ATMOSPHERIC SCIENCES	934	813	121	922	805	117	12	8	4
GEOSCIENCES	9,526	7,455	2,071	8,948	7,219	1,729	578	236	342
OCEANOGRAPHY	2,091	1,593	498	1,934	1,551	383	157	42	115
ENVIRONMENTAL SCIENCES, N.E.C.	2,365	1,470	895	1,665	1,172	493	700	298	402
MATHEMATICAL/COMPUTER SCIENCES	37,021	20,050	16,971	30,428	18,181	12,247	6,593	1,869	4,724
COMPUTER SCIENCE	20,266	9,365	10,901	16,171	8,168	8,003	4,095	1,197	2,898
MATHEMATICS AND APPLIED MATHEMATICS	14,707	9,108	5,599	12,352	8,451	3,901	2,355	657	1,698
STATISTICS	2,048	1,577	471	1,905	1,562	343	143	15	128
LIFE SCIENCES	103,518	70,676	32,842	91,344	66,094	25,250	12,174	4,582	7,592
AGRICULTURAL SCIENCES	12,517	10,050	2,467	11,794	9,675	2,119	723	375	348
BIOLOGICAL SCIENCES	46,552	37,024	9,528	41,985	35,212	6,773	4,567	1,812	2,755
ANATOMY	1,113	969	144	1,113	969	144	0	0	0
BIOCHEMISTRY	4,099	3,820	279	4,065	3,802	263	34	18	16
BIOLOGY	13,648	9,192	4,456	10,042	7,732	2,310	3,606	1,460	2,146
BIOMETRY/EPIDEMIOLOGY	1,172	923	249	1,172	923	249	0	0	0
BIOPHYSICS	442	425	17	442	425	17	0	0	0
BOTANY	3,593	3,131	462	3,569	3,118	451	24	13	11
CELL BIOLOGY	1,055	1,029	26	1,055	1,029	26	0	0	0
ECOLOGY	1,003	892	111	970	887	83	33	5	28
ENTOMOLOGY/PARASITOLOGY	1,540	1,340	200	1,540	1,340	200	0	0	0
GENETICS	971	907	64	921	860	61	50	47	3
MICROBIOLOGY	4,287	3,665	622	4,142	3,641	501	145	24	121
NUTRITION	4,337	3,114	1,223	4,081	3,020	1,061	256	94	162
PATHOLOGY	1,706	1,087	619	1,496	1,015	481	210	72	138
PHARMACOLOGY	2,090	1,946	144	2,079	1,945	134	11	1	10
PHYSIOLOGY	2,061	1,808	253	2,061	1,808	253	0	0	0
ZOOLOGY	2,522	2,155	367	2,490	2,137	353	32	18	14
BIOSCIENCES, N.E.C.	913	621	292	747	561	186	166	60	106
HEALTH SCIENCES	44,449	23,602	20,847	37,565	21,207	16,358	6,884	2,395	4,489
ANESTHESIOLOGY	41	21	20	41	21	20	0	0	0
CANCER/ONCOLOGY	57	55	2	57	55	2	0	0	0
CARDIOLOGY	59	28	31	3	3	0	56	25	31
DENTISTRY	930	808	122	930	808	122	0	0	0
ENDOCRINOLOGY	54	51	3	54	51	3	0	0	0
GASTROENTEROLOGY	7	7	0	7	7	0	0	0	0
HEMATOLOGY	7	6	1	7	6	1	0	0	0
NEUROLOGY	332	325	7	318	311	7	14	14	0
NURSING	16,425	6,662	9,763	14,468	6,232	8,236	1,957	430	1,527
OBSTETRICS/GYNECOLOGY	24	20	4	24	20	4	0	0	0
OPHTHALMOLOGY	22	19	3	22	19	3	0	0	0
OTORHINOLARYNGOLOGY	17	16	1	17	16	1	0	0	0
PEDIATRICS	154	144	10	154	144	10	0	0	0
PHARMACEUTICAL SCIENCES	2,551	1,709	842	2,528	1,696	832	23	13	10
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,757	4,051	2,706	6,656	4,023	2,633	101	28	73
PSYCHIATRY	129	72	57	129	72	57	0	0	0
PULMONARY DISEASE	14	12	2	14	12	2	0	0	0
RADIOLOGY	295	211	84	295	211	84	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	8,694	5,449	3,245	6,775	4,493	2,282	1,919	956	963
SURGERY	115	90	25	115	90	25	0	0	0
VETERINARY SCIENCES	483	390	93	458	368	90	25	22	3
CLINICAL MEDICINE, N.E.C.	794	367	427	424	298	126	370	69	301
HEALTH RELATED, N.E.C.	6,488	3,089	3,399	4,069	2,251	1,818	2,419	838	1,581
PSYCHOLOGY	40,205	25,883	14,322	29,073	21,144	7,929	11,132	4,739	6,393
SOCIAL SCIENCES	89,028	53,372	35,656	76,120	49,039	27,081	12,908	4,333	8,575
AGRICULTURAL ECONOMICS	2,227	1,950	277	2,183	1,928	255	44	22	22
ANTHROPOLOGY	5,948	4,105	1,843	5,688	4,027	1,661	260	78	182
ECONOMICS (EXCEPT AGRICULTURAL)	13,832	9,548	4,284	12,744	9,151	3,593	1,088	397	691
GEOGRAPHY	3,241	2,201	1,040	2,773	2,035	738	468	166	302
HISTORY AND PHILOSOPHY OF SCIENCE	256	223	33	256	223	33	0	0	0
LINGUISTICS	2,782	2,139	643	2,653	2,127	526	129	12	117
POLITICAL SCIENCE	29,613	13,681	15,932	23,462	12,086	11,376	6,151	1,595	4,556
SOCIOLOGY	7,634	5,062	2,572	6,969	4,820	2,149	665	242	423
SOCIOLOGY/ANTHROPOLOGY	1,065	647	418	976	602	372	91	45	46
SOCIAL SCIENCES, N.E.C.	22,430	13,816	8,614	18,418	12,040	6,378	4,012	1,776	2,236

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1982

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	399,682	269,903	129,779	252,836	146,846	272,482	127,200
ENGINEERING	86,789	53,294	33,495	77,368	9,421	67,741	19,048
AEROSPACE	1,941	1,332	609	1,831	110	1,751	190
AGRICULTURAL	875	821	54	818	57	782	93
BIOMEDICAL	1,116	648	468	897	219	1,006	110
CHEMICAL	7,189	4,822	2,367	6,288	901	6,594	595
CIVIL	14,680	10,040	4,640	12,762	1,918	11,520	3,160
ELECTRICAL	22,017	12,329	9,688	20,466	1,551	18,628	3,389
ENGINEERING SCIENCE	2,286	1,354	932	1,995	291	1,563	723
INDUSTRIAL	11,764	4,962	6,802	9,697	2,067	6,475	5,289
MECHANICAL	11,568	7,525	4,043	10,846	722	10,036	1,532
METALLURGICAL/MATERIALS	3,124	1,850	1,274	2,704	420	2,971	153
MINING	449	377	72	409	40	306	143
NUCLEAR	1,301	1,018	283	1,215	86	1,237	64
PETROLEUM	586	321	265	544	42	559	27
ENGINEERING, N.E.C.	7,893	5,895	1,998	6,896	997	4,313	3,580
PHYSICAL SCIENCES	28,205	20,119	8,086	22,783	5,422	25,046	3,159
ASTRONOMY	632	420	212	531	101	620	12
CHEMISTRY	17,019	12,304	4,715	12,859	4,160	14,964	2,055
PHYSICS	10,306	7,147	3,159	9,239	1,067	9,404	902
PHYSICAL SCIENCES, N.E.C.	248	248	0	154	94	58	190
ENVIRONMENTAL SCIENCES	14,916	12,613	2,303	11,179	3,737	11,282	3,634
ATMOSPHERIC SCIENCES	934	836	98	796	138	822	112
GEOSCIENCES	9,526	7,887	1,639	7,255	2,271	7,345	2,181
OCEANOGRAPHY	2,091	1,798	293	1,514	577	1,915	176
ENVIRONMENTAL SCIENCES, N.E.C.	2,365	2,092	273	1,614	751	1,200	1,165
MATHEMATICAL/COMPUTER SCIENCES	37,021	24,172	12,849	26,592	10,429	21,141	15,880
COMPUTER SCIENCE	20,266	11,984	8,282	14,813	5,453	10,010	10,256
MATHEMATICS AND APPLIED MATHEMATICS	14,707	10,514	4,193	10,313	4,394	9,458	5,249
STATISTICS	2,048	1,674	374	1,466	582	1,673	375
LIFE SCIENCES	103,518	77,677	25,841	47,990	55,528	68,856	34,662
AGRICULTURAL SCIENCES	12,517	12,181	336	9,470	3,047	10,107	2,410
BIOLOGICAL SCIENCES	46,552	34,364	12,188	27,098	19,454	37,601	8,951
ANATOMY	1,113	688	425	692	421	1,088	25
BIOCHEMISTRY	4,099	2,739	1,360	2,639	1,460	4,025	74
BIOLOGY	13,648	9,441	4,207	8,009	5,639	7,851	5,797
BIOMETRY/EPIDEMIOLOGY	1,172	632	540	563	609	1,105	67
BIOPHYSICS	442	252	190	332	110	442	0
BOTANY	3,593	3,314	279	2,293	1,300	3,391	202
CELL BIOLOGY	1,055	568	487	667	388	1,047	8
ECOLOGY	1,003	930	73	663	340	965	38
ENTOMOLOGY/PARASITOLOGY	1,540	1,490	50	1,158	382	1,487	53
GENETICS	971	679	292	449	522	919	52
MICROBIOLOGY	4,287	3,192	1,095	2,392	1,895	3,884	403
NUTRITION	4,337	3,386	951	1,366	2,971	3,292	1,045
PATHOLOGY	1,706	1,143	563	951	755	1,164	542
PHARMACOLOGY	2,090	1,421	669	1,361	729	2,033	57
PHYSIOLOGY	2,061	1,421	640	1,370	691	1,946	115
ZOOLOGY	2,522	2,352	170	1,662	860	2,447	75
BIOSCIENCES, N.E.C.	913	716	197	531	382	515	398
HEALTH SCIENCES	44,449	31,132	13,317	11,422	33,027	21,148	23,301
ANESTHESIOLOGY	41	36	5	13	28	4	37
CANCER/ONCOLOGY	57	56	1	41	16	57	0
CARDIOLOGY	59	0	59	28	31	3	56
DENTISTRY	930	649	281	751	179	66	864
ENDOCRINOLOGY	54	53	1	23	31	54	0
GASTROENTEROLOGY	7	1	6	6	1	7	0
HEMATOLOGY	7	6	1	1	6	2	5
NEUROLOGY	332	178	154	218	114	318	14
NURSING	16,425	11,501	4,924	725	15,700	6,956	9,469
OBSTETRICS/GYNECOLOGY	24	10	14	10	14	21	3
OPHTHALMOLOGY	22	18	4	17	5	19	3
OTORHINOLARYNGOLOGY	17	14	3	14	3	9	8
PEDIATRICS	154	99	55	71	83	113	41
PHARMACEUTICAL SCIENCES	2,551	1,726	825	1,776	775	2,255	296
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,757	4,086	2,671	2,982	3,775	4,806	1,951
PSYCHIATRY	129	108	21	63	66	129	0
PULMONARY DISEASE	14	12	2	9	5	12	2
RADIOLOGY	295	211	84	230	65	209	86
SPEECH PATHOLOGY/AUDIOLOGY	8,694	7,461	1,233	1,220	7,474	4,159	4,535
SURGERY	115	90	25	99	16	71	44
VETERINARY SCIENCES	483	406	77	305	178	341	142
CLINICAL MEDICINE, N.E.C.	794	493	301	357	437	245	549
HEALTH RELATED, N.E.C.	6,488	3,918	2,570	2,463	4,025	1,292	5,196
PSYCHOLOGY	40,205	23,400	16,805	16,991	23,214	26,090	14,115
SOCIAL SCIENCES	89,028	58,628	30,400	49,933	39,095	52,326	36,702
AGRICULTURAL ECONOMICS	2,227	2,131	96	1,773	454	1,839	388
ANTHROPOLOGY	5,948	4,293	1,655	2,677	3,271	4,919	1,029
ECONOMICS (EXCEPT AGRICULTURAL)	13,832	8,477	5,355	10,318	3,514	10,959	2,873
GEOGRAPHY	3,241	3,008	233	2,242	999	1,903	1,338
HISTORY AND PHILOSOPHY OF SCIENCE	256	148	108	167	89	253	3
LINGUISTICS	2,782	1,966	816	1,177	1,605	2,292	490
POLITICAL SCIENCE	29,613	17,147	12,466	18,621	10,992	14,553	15,060
SOCIOLOGY	7,634	5,379	2,255	3,585	4,049	6,020	1,614
SOCIOLOGY/ANTHROPOLOGY	1,065	679	386	512	553	594	471
SOCIAL SCIENCES, N.E.C.	22,430	15,400	7,030	8,861	13,569	8,994	13,436

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1982

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	269,903	182,631	87,272	129,779	73,328	56,451
ENGINEERING	53,294	34,999	18,295	33,495	15,577	17,918
AEROSPACE	1,332	1,091	241	609	431	178
AGRICULTURAL	821	686	135	54	53	1
BIOMEDICAL	648	548	100	468	383	85
CHEMICAL	4,822	3,835	987	2,367	1,773	594
CIVIL	10,040	7,154	2,886	4,640	2,655	1,985
ELECTRICAL	12,329	7,516	4,813	9,688	4,017	5,671
ENGINEERING SCIENCE	1,354	809	545	932	555	377
INDUSTRIAL	4,962	2,933	2,029	6,802	1,124	5,678
MECHANICAL	7,525	5,194	2,331	4,043	2,170	1,873
METALLURGICAL/MATERIALS	1,850	1,548	302	1,274	930	344
MINING	377	309	68	72	64	8
NUCLEAR	1,018	815	203	283	227	56
PETROLEUM	321	285	36	265	191	74
ENGINEERING, N.E.C.	5,895	2,276	3,619	1,998	1,004	994
PHYSICAL SCIENCES	20,119	17,356	2,763	8,086	6,715	1,371
ASTRONOMY	420	382	38	212	208	4
CHEMISTRY	12,304	10,614	1,690	4,715	3,694	1,021
PHYSICS	7,147	6,267	880	3,159	2,813	346
PHYSICAL SCIENCES, N.E.C.	248	93	155	0	0	0
ENVIRONMENTAL SCIENCES	12,613	9,361	3,252	2,303	1,970	333
ATMOSPHERIC SCIENCES	836	722	114	98	91	7
GEOSCIENCES	7,887	6,030	1,857	1,639	1,425	214
OCEANOGRAPHY	1,798	1,337	461	293	256	37
ENVIRONMENTAL SCIENCES, N.E.C.	2,092	1,272	820	273	198	75
MATHEMATICAL/COMPUTER SCIENCES	24,172	14,567	9,605	12,849	5,483	7,366
COMPUTER SCIENCE	11,984	6,512	5,472	8,282	2,853	5,429
MATHEMATICS AND APPLIED MATHEMATICS	10,514	6,697	3,817	4,193	2,411	1,782
STATISTICS	1,674	1,358	316	374	219	155
LIFE SCIENCES	77,677	54,638	23,039	25,841	16,038	9,803
AGRICULTURAL SCIENCES	12,181	9,734	2,447	336	316	20
BIOLOGICAL SCIENCES	34,364	27,623	6,741	12,188	9,401	2,787
ANATOMY	688	603	85	425	366	59
BIOCHEMISTRY	2,739	2,580	159	1,360	1,240	120
BIOLOGY	9,441	6,448	2,993	4,207	2,744	1,463
BIOMETRY/EPIDEMIOLOGY	632	485	147	540	438	102
BIOPHYSICS	252	235	17	190	190	0
BOTANY	3,314	2,877	437	279	254	25
CELL BIOLOGY	568	557	11	487	472	15
ECOLOGY	930	844	86	73	48	25
ENTOMOLOGY/PARASITOLOGY	1,490	1,291	199	50	49	1
GENETICS	679	650	29	292	257	35
MICROBIOLOGY	3,192	2,726	466	1,095	939	156
NUTRITION	3,386	2,442	944	951	672	279
PATHOLOGY	1,143	752	391	563	335	228
PHARMACOLOGY	1,421	1,324	97	669	622	47
PHYSIOLOGY	1,421	1,226	195	640	582	58
ZOOLOGY	2,352	2,022	330	170	133	37
BIOSCIENCES, N.E.C.	716	561	155	197	60	137
HEALTH SCIENCES	31,132	17,281	13,851	13,317	6,321	6,996
ANESTHESIOLOGY	36	20	16	5	1	4
CANCER/ONCOLOGY	56	55	1	1	0	1
CARDIOLOGY	0	0	0	59	28	31
DENTISTRY	649	567	82	281	241	40
ENDOCRINOLOGY	53	50	3	1	1	0
GASTROENTEROLOGY	1	1	0	6	6	0
HEMATOLOGY	6	6	0	1	0	1
NEUROLOGY	178	171	7	154	154	0
NURSING	11,501	4,830	6,671	4,924	1,832	3,092
OBSTETRICS/GYNECOLOGY	10	7	3	14	13	1
OPHTHALMOLOGY	18	15	3	4	4	0
OTORHINOLARYNGOLOGY	14	13	1	3	3	0
PEDIATRICS	99	97	2	55	47	8
PHARMACEUTICAL SCIENCES	1,726	1,460	266	825	249	576
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,086	2,705	1,381	2,671	1,346	1,325
PSYCHIATRY	108	59	49	21	13	8
PULMONARY DISEASE	12	10	2	2	2	0
RADIOLOGY	211	134	77	84	77	7
SPEECH PATHOLOGY/AUDIOLOGY	7,461	4,561	2,900	1,233	888	345
SURGERY	90	65	25	25	25	0
VETERINARY SCIENCES	406	316	90	77	74	3
CLINICAL MEDICINE, N.E.C.	493	240	253	301	127	174
HEALTH RELATED, N.E.C.	3,918	1,899	2,019	2,570	1,190	1,380
PSYCHOLOGY	23,400	15,661	7,739	16,805	10,222	6,583
SOCIAL SCIENCES	58,628	36,049	22,579	30,400	17,323	13,077
AGRICULTURAL ECONOMICS	2,131	1,858	273	96	92	4
ANTHROPOLOGY	4,293	2,884	1,409	1,655	1,221	434
ECONOMICS (EXCEPT AGRICULTURAL)	8,477	6,204	2,273	5,355	3,344	2,011
GEOGRAPHY	3,008	2,003	1,005	233	198	35
HISTORY AND PHILOSOPHY OF SCIENCE	148	122	26	108	101	7
LINGUISTICS	1,966	1,507	459	816	632	184
POLITICAL SCIENCE	17,147	7,792	9,355	12,466	5,889	6,577
SOCIOLOGY	5,379	3,610	1,769	2,255	1,452	803
SOCIOLOGY/ANTHROPOLOGY	679	457	222	386	190	196
SOCIAL SCIENCES, N.E.C.	15,400	9,612	5,788	7,030	4,204	2,826

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	399,682	13,302	1,194	9,323	9,340	261,650	36,343	68,530
ENGINEERING	86,789	1,256	177	2,780	1,146	45,072	10,965	25,393
AEROSPACE	1,941	10	0	44	21	983	268	615
AGRICULTURAL	875	5	0	13	9	476	10	362
BIOMEDICAL	1,116	18	1	26	12	794	44	221
CHEMICAL	7,189	85	14	312	101	3,850	297	2,530
CIVIL	14,680	140	22	418	223	7,140	1,806	4,931
ELECTRICAL	22,017	303	59	794	317	10,597	3,645	6,302
ENGINEERING SCIENCE	2,286	39	1	57	17	1,186	453	533
INDUSTRIAL	11,764	355	25	307	214	7,522	1,274	2,067
MECHANICAL	11,568	100	14	337	114	5,331	1,601	4,071
METALLURGICAL/MATERIALS	3,124	26	2	97	25	1,614	109	1,251
MINING	449	2	0	14	6	260	36	131
NUCLEAR	1,301	14	4	29	14	723	26	491
PETROLEUM	586	7	0	17	6	259	4	293
ENGINEERING, N.E.C.	7,893	152	35	315	67	4,337	1,392	1,595
PHYSICAL SCIENCES	28,205	553	50	698	496	17,691	1,770	6,947
ASTRONOMY	632	7	2	2	6	491	21	103
CHEMISTRY	17,019	426	32	494	333	10,980	1,227	3,527
PHYSICS	10,306	113	15	192	149	6,043	512	3,282
PHYSICAL SCIENCES, N.E.C.	248	7	1	10	8	177	10	35
ENVIRONMENTAL SCIENCES	14,916	97	24	197	185	11,276	1,311	1,826
ATMOSPHERIC SCIENCES	934	3	1	13	6	694	17	200
GEOSCIENCES	9,526	48	11	97	73	7,354	911	1,032
OCEANOGRAPHY	2,091	17	4	51	95	1,447	106	371
ENVIRONMENTAL SCIENCES, N.E.C.	2,365	29	8	36	11	1,781	277	223
MATHEMATICAL/COMPUTER SCIENCES	37,021	867	82	1,380	539	21,735	3,574	8,844
COMPUTER SCIENCE	20,266	512	39	904	248	11,884	2,267	4,412
MATHEMATICS AND APPLIED MATHEMATICS	14,707	327	38	436	275	8,734	1,276	3,621
STATISTICS	2,048	28	5	40	16	1,117	31	811
LIFE SCIENCES	103,518	2,978	290	2,229	1,946	78,439	6,312	11,324
AGRICULTURAL SCIENCES	12,517	148	25	138	210	8,539	824	2,633
BIOLOGICAL SCIENCES	46,552	1,138	95	1,131	798	34,926	2,859	5,605
ANATOMY	1,113	20	1	22	14	907	56	93
BIOCHEMISTRY	4,099	66	6	131	73	3,013	108	702
BIOLOGY	13,648	521	40	291	380	10,394	964	1,058
BIOMETRY/EPIDEMIOLOGY	1,172	56	7	41	12	888	0	168
BIOPHYSICS	442	4	0	14	3	348	1	72
BOTANY	3,593	36	5	56	38	2,613	212	633
CELL BIOLOGY	1,055	10	4	33	8	882	23	95
ECOLOGY	1,003	4	0	8	10	749	148	84
ENTOMOLOGY/PARASITOLOGY	1,540	16	0	26	19	1,112	120	247
GENETICS	971	27	1	36	19	756	13	119
MICROBIOLOGY	4,287	68	6	117	56	3,122	396	522
NUTRITION	4,337	110	7	119	58	3,854	253	936
PATHOLOGY	1,706	37	5	43	17	1,274	125	205
PHARMACOLOGY	2,090	33	4	61	33	1,624	79	256
PHYSIOLOGY	2,061	45	6	48	23	1,698	47	194
ZOOLOGY	2,522	53	3	50	21	2,067	178	150
BIOSCIENCES, N.E.C.	913	32	0	35	14	625	136	71
HEALTH SCIENCES	44,449	1,692	170	960	938	34,974	2,629	3,086
ANESTHESIOLOGY	41	0	0	0	0	24	15	2
CANCER/ONCOLOGY	57	1	0	1	1	54	0	0
CARDIOLOGY	59	0	0	0	0	56	3	0
DENTISTRY	930	12	4	17	19	678	27	173
ENDOCRINOLOGY	54	4	0	1	1	40	1	7
GASTROENTEROLOGY	7	1	0	1	0	2	3	0
HEMATOLOGY	7	0	0	0	0	7	0	0
NEUROLOGY	332	1	0	12	2	272	26	19
NURSING	16,425	582	44	221	181	14,071	980	346
OBSTETRICS/GYNECOLOGY	24	2	0	1	0	11	0	10
OPHTHALMOLOGY	22	0	0	1	0	4	13	4
OTORHINOLARYNGOLOGY	17	0	0	0	0	17	0	0
PEDIATRICS	154	12	1	5	2	114	1	19
PHARMACEUTICAL SCIENCES	2,551	51	8	135	17	1,541	106	693
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,757	292	47	299	326	4,700	204	889
PSYCHIATRY	129	12	0	4	6	89	7	11
PULMONARY DISEASE	14	1	0	0	0	8	4	1
RADIOLOGY	295	4	1	13	2	233	1	41
SPEECH PATHOLOGY/AUDIOLOGY	8,694	346	34	108	177	6,849	895	285
SURGERY	115	1	0	0	0	92	0	22
VETERINARY SCIENCES	483	25	0	6	2	333	3	114
CLINICAL MEDICINE, N.E.C.	794	54	3	31	14	579	23	90
HEALTH RELATED, N.E.C.	6,488	291	28	104	188	5,200	317	360
PSYCHOLOGY	40,205	1,655	136	442	1,487	30,390	4,684	1,411
SOCIAL SCIENCES	89,028	5,896	435	1,597	3,541	57,047	7,727	12,785
AGRICULTURAL ECONOMICS	2,227	60	10	26	44	1,305	19	763
ANTHROPOLOGY	5,948	74	37	51	120	4,444	660	562
ECONOMICS (EXCEPT AGRICULTURAL)	13,832	425	42	352	302	7,680	878	4,153
GEOGRAPHY	3,241	51	5	37	46	2,469	143	490
HISTORY AND PHILOSOPHY OF SCIENCE	256	2	1	1	2	212	2	36
LINGUISTICS	2,782	26	9	50	73	1,536	297	791
POLITICAL SCIENCE	29,613	2,537	137	546	1,757	17,835	3,528	3,273
SOCIOLOGY	7,634	581	48	149	336	4,902	364	1,254
SOCIOLOGY/ANTHROPOLOGY	1,065	122	7	8	25	708	29	166
SOCIAL SCIENCES, N.E.C.	22,430	2,018	139	377	836	15,956	1,807	1,297

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND CATEGORY OF INSTITUTION IN WHICH ENROLLED: 1982

FIELD	TOTAL	INSTITUTIONAL CATEGORY 1/			
		(A) DOCTORATE-GRANTING INSTITUTIONS	(B) COMPREHENSIVE INSTITUTIONS	(C) GENERAL BACCALAUREATE INSTITUTIONS	(D) PROFESSIONAL AND SPECIALIZED INSTITUTIONS
TOTAL, ALL FIELDS	399,682	277,678	95,183	1,977	24,844
ENGINEERING	86,789	63,569	15,366	502	7,352
AEROSPACE	1,941	1,544	114	0	283
AGRICULTURAL	875	827	48	0	0
BIOMEDICAL	1,116	915	139	0	62
CHEMICAL	7,189	5,743	739	0	707
CIVIL	14,680	11,444	2,093	51	1,092
ELECTRICAL	22,017	16,025	3,940	31	2,021
ENGINEERING SCIENCE	2,286	1,662	312	10	302
INDUSTRIAL	11,764	7,125	3,283	196	1,160
MECHANICAL	11,568	8,885	1,730	4	949
METALLURGICAL/MATERIALS	3,124	2,513	241	54	316
MINING	449	330	17	14	88
NUCLEAR	1,301	1,165	0	0	136
PETROLEUM	586	450	70	9	57
ENGINEERING, N.E.C.	7,893	4,941	2,640	133	179
PHYSICAL SCIENCES	28,205	23,185	4,285	64	671
ASTRONOMY	632	620	12	0	0
CHEMISTRY	17,019	13,665	2,918	36	400
PHYSICS	10,306	8,868	1,141	26	271
PHYSICAL SCIENCES, N.E.C.	248	32	214	2	0
ENVIRONMENTAL SCIENCES	14,916	10,987	3,152	121	656
ATMOSPHERIC SCIENCES	534	830	81	0	23
GEOSCIENCES	9,526	7,356	1,740	65	365
OCEANOGRAPHY	2,091	1,455	461	45	130
ENVIRONMENTAL SCIENCES, N.E.C.	2,365	1,346	870	11	138
MATHEMATICAL/COMPUTER SCIENCES	37,021	20,618	13,122	13	3,268
COMPUTER SCIENCE	20,266	9,750	8,080	0	2,436
MATHEMATICS AND APPLIED MATHEMATICS	14,707	8,994	4,901	13	799
STATISTICS	2,048	1,874	141	0	33
LIFE SCIENCES	103,518	73,087	21,760	506	8,165
AGRICULTURAL SCIENCES	12,517	10,800	1,664	53	0
BIOLOGICAL SCIENCES	46,552	34,492	9,021	126	2,913
ANATOMY	1,113	805	56	0	252
BIOCHEMISTRY	4,099	3,465	271	0	363
BIOLOGY	13,648	7,219	6,214	126	89
BIOMETRY/EPIDEMIOLOGY	1,172	1,055	13	0	104
BIOPHYSICS	442	423	4	0	15
BOTANY	3,593	3,277	316	0	0
CELL BIOLOGY	1,055	951	18	0	86
ECOLOGY	1,003	838	165	0	0
ENTOMOLOGY/PARASITOLOGY	1,540	1,492	48	0	0
GENETICS	971	867	63	0	41
MICROBIOLOGY	4,287	3,371	382	0	534
NUTRITION	4,337	3,680	518	0	139
PATHOLOGY	1,706	1,149	282	0	275
PHARMACOLOGY	2,090	1,594	50	0	446
PHYSIOLOGY	2,061	1,605	121	0	335
ZOOLOGY	2,522	2,357	165	0	0
BIOSCIENCES, N.E.C.	913	344	335	0	234
HEALTH SCIENCES	44,449	27,795	11,075	327	5,252
ANESTHESIOLOGY	41	38	2	0	1
CANCER/ONCOLOGY	57	57	0	0	0
CARDIOLOGY	59	3	56	0	0
DENTISTRY	930	770	44	0	116
ENDOCRINOLOGY	54	20	0	0	34
GASTROENTEROLOGY	7	7	0	0	0
HEMATOLOGY	7	7	0	0	0
NEUROLOGY	332	252	19	0	61
NURSING	16,425	10,152	3,877	15	2,381
OBSTETRICS/GYNECOLOGY	24	13	0	0	11
OPHTHALMOLOGY	22	15	0	0	7
OTORHINOLARYNGOLOGY	17	14	0	0	3
PEDIATRICS	154	145	0	0	9
PHARMACEUTICAL SCIENCES	2,551	2,108	232	0	211
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6,757	4,809	586	0	1,362
PSYCHIATRY	129	23	0	0	106
PULMONARY DISEASE	14	9	0	0	5
RADIOLOGY	295	274	3	0	18
SPEECH PATHOLOGY/AUDIOLOGY	8,694	5,485	2,881	0	328
SURGERY	115	67	10	0	38
VETERINARY SCIENCES	483	452	31	0	0
CLINICAL MEDICINE, N.E.C.	794	216	288	103	187
HEALTH RELATED, N.E.C.	6,488	2,859	3,046	209	374
PSYCHOLOGY	40,205	20,661	15,307	349	3,888
SOCIAL SCIENCES	89,028	65,571	22,191	422	844
AGRICULTURAL ECONOMICS	2,227	2,057	163	7	0
ANTHROPOLOGY	5,948	5,355	550	12	31
ECONOMICS (EXCEPT AGRICULTURAL)	13,832	11,631	2,044	26	131
GEOGRAPHY	3,241	2,439	802	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	256	246	0	0	10
LINGUISTICS	2,782	2,376	406	0	0
POLITICAL SCIENCE	29,613	19,358	9,805	84	366
SOCIOLOGY	7,634	6,485	1,115	0	34
SOCIOLOGY/ANTHROPOLOGY	1,065	792	257	9	7
SOCIAL SCIENCES, N.E.C.	22,430	14,832	7,049	284	265

1/ BASED ON CLASSIFICATIONS DEVISED BY THE NATIONAL CENTER FOR EDUCATION STATISTICS.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-6. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION, HIGHEST DEGREE GRANTED, AND ENROLLMENT STATUS: 1982

DIVISION AND STATE	ALL INSTITUTIONS			DOCTORATE-GRANTING			MASTER'S-GRANTING		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL INSTITUTIONS	399,682	255,959	143,723	347,414	237,676	109,738	52,268	18,283	33,985
NEW ENGLAND	31,584	20,418	11,166	26,854	19,584	7,270	4,730	834	3,896
CONNECTICUT	7,261	4,180	3,081	4,182	3,691	491	3,079	489	2,590
MAINE	416	361	55	416	361	55	0	0	0
MASSACHUSETTS	20,506	13,331	7,175	19,099	13,074	6,025	1,407	257	1,150
NEW HAMPSHIRE	839	674	165	782	672	110	57	2	55
RHODE ISLAND	1,922	1,452	470	1,740	1,371	369	182	81	101
VERMONT	640	420	220	635	415	220	5	5	0
MIDDLE ATLANTIC	73,202	38,186	35,016	64,670	36,305	28,365	8,532	1,881	6,651
NEW JERSEY	10,227	4,188	6,039	9,177	4,063	5,114	1,050	125	925
NEW YORK	43,645	22,357	20,788	38,541	21,765	16,776	5,104	1,092	4,012
PENNSYLVANIA	19,330	11,141	8,189	16,952	10,477	6,475	2,378	664	1,714
EAST NORTH CENTRAL	67,805	47,129	20,676	60,809	43,964	16,845	6,996	3,165	3,831
ILLINOIS	19,806	12,855	6,951	16,268	11,703	4,565	3,538	1,152	2,386
INDIANA	8,399	5,919	2,480	7,921	5,798	2,123	478	121	357
MICHIGAN	13,188	9,344	3,844	12,553	9,105	3,448	635	239	396
OHIO	17,405	12,182	5,223	16,191	11,146	5,045	1,214	1,036	178
WISCONSIN	9,007	6,829	2,178	7,876	6,212	1,664	1,131	617	514
WEST NORTH CENTRAL	25,864	18,804	7,060	24,096	17,937	6,159	1,768	867	901
IOWA	4,805	3,773	1,032	4,682	3,739	943	123	34	89
KANSAS	4,813	3,582	1,231	4,218	3,289	929	595	293	302
MINNESOTA	5,754	4,552	1,202	5,203	4,295	908	551	257	294
MISSOURI	6,520	4,108	2,412	6,031	3,833	2,198	489	275	214
NEBRASKA	2,294	1,520	774	2,284	1,512	772	10	8	2
NORTH DAKOTA	946	770	176	946	770	176	0	0	0
SOUTH DAKOTA	732	499	233	732	499	233	0	0	0
SOUTH ATLANTIC	57,318	34,170	23,148	52,119	32,455	19,664	5,199	1,715	3,484
DELAWARE	1,173	734	439	1,173	734	439	0	0	0
DISTRICT OF COLUMBIA	8,793	3,508	5,285	8,656	3,435	5,221	137	73	64
FLORIDA	11,771	6,605	5,166	10,916	6,229	4,687	855	376	479
GEORGIA	6,399	4,791	1,608	5,939	4,618	1,321	460	173	287
MARYLAND	7,404	3,877	3,527	5,505	3,534	1,971	1,899	343	1,556
NORTH CAROLINA	7,859	6,233	1,626	7,116	5,833	1,283	743	400	343
SOUTH CAROLINA	3,115	1,965	1,150	2,944	1,914	1,030	171	51	120
VIRGINIA	7,559	5,116	2,443	7,153	4,860	2,293	406	256	150
WEST VIRGINIA	3,245	1,341	1,904	2,717	1,298	1,419	528	43	485
EAST SOUTH CENTRAL	15,118	9,950	5,168	12,962	8,901	4,061	2,156	1,049	1,107
ALABAMA	3,901	2,630	1,271	3,301	2,268	1,033	600	362	238
KENTUCKY	3,465	2,168	1,297	2,842	1,858	984	623	310	313
MISSISSIPPI	2,183	1,611	572	1,953	1,503	450	230	108	122
TENNESSEE	5,569	3,541	2,028	4,866	3,272	1,594	703	269	434
WEST SOUTH CENTRAL	35,417	22,932	12,485	30,572	21,112	9,460	4,845	1,820	3,025
ARKANSAS	1,779	1,154	625	1,224	890	334	555	264	291
LOUISIANA	4,574	3,203	1,371	4,090	3,000	1,090	484	203	281
OKLAHOMA	3,832	2,840	992	3,721	2,790	931	111	50	61
TEXAS	25,232	15,735	9,497	21,537	14,432	7,105	3,695	1,303	2,392
MOUNTAIN	23,566	17,136	6,430	23,023	16,790	6,233	543	346	197
ARIZONA	6,474	4,139	2,335	6,474	4,139	2,335	0	0	0
COLORADO	6,968	5,233	1,735	6,923	5,212	1,711	45	21	24
IDAHO	939	657	282	939	657	282	0	0	0
MONTANA	1,035	952	83	976	901	75	59	51	8
NEVADA	600	448	152	413	355	58	187	93	94
NEW MEXICO	2,624	1,830	794	2,372	1,649	723	252	181	71
UTAH	4,124	3,176	948	4,124	3,176	948	0	0	0
WYOMING	802	701	101	802	701	101	0	0	0
PACIFIC	67,665	45,771	21,894	50,201	39,169	11,032	17,464	6,602	10,862
ALASKA	564	321	243	355	271	84	209	50	159
CALIFORNIA	55,180	36,166	19,014	39,345	30,493	8,852	15,835	5,673	10,162
HAWAII	2,053	1,758	295	2,053	1,758	295	0	0	0
OREGON	3,425	2,759	666	3,175	2,599	576	250	160	90
WASHINGTON	6,443	4,767	1,676	5,273	4,048	1,225	1,170	719	451
OUTLYING AREAS	2,143	1,463	680	2,108	1,459	649	35	4	31

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-7. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	255,959	84,750	171,209	197,932	58,027	167,270	88,689	182,631	73,328
ENGINEERING	50,576	18,374	32,202	29,028	21,548	45,115	5,461	34,999	15,577
AEROSPACE	1,522	532	990	945	577	1,449	73	1,091	431
AGRICULTURAL	739	248	491	398	341	689	50	686	53
BIOMEDICAL	931	350	581	732	199	751	180	548	383
CHEMICAL	5,608	1,879	3,729	3,267	2,341	4,936	672	3,835	1,773
CIVIL	9,809	3,675	6,134	5,729	4,080	8,415	1,394	7,154	2,655
ELECTRICAL	11,533	4,466	7,067	6,421	5,112	10,715	818	7,516	4,017
ENGINEERING SCIENCE	1,364	403	961	894	470	1,229	135	809	555
INDUSTRIAL	4,057	1,451	2,606	2,362	1,695	3,243	814	2,933	1,124
MECHANICAL	7,364	2,763	4,601	3,853	3,511	6,929	435	5,194	2,170
METALLURGICAL/MATERIALS	2,478	653	1,825	1,297	1,181	2,170	308	1,548	930
MINING	373	116	257	251	122	338	35	309	64
NUCLEAR	1,042	331	711	569	473	969	73	815	227
PETROLEUM	476	176	300	216	260	443	33	285	191
ENGINEERING, N.E.C.	3,280	1,331	1,949	2,094	1,186	2,839	441	2,276	1,004
PHYSICAL SCIENCES	24,071	6,191	17,880	17,583	6,488	19,667	4,404	17,356	6,715
ASTRONOMY	590	146	444	488	102	496	94	382	208
CHEMISTRY	14,308	3,763	10,545	11,087	3,221	10,952	3,356	10,614	3,694
PHYSICS	9,080	2,260	6,820	5,925	3,155	8,153	927	6,267	2,813
PHYSICAL SCIENCES, N.E.C.	93	22	71	83	10	66	27	93	0
ENVIRONMENTAL SCIENCES	11,331	3,644	7,687	9,713	1,618	8,525	2,806	9,361	1,970
ATMOSPHERIC SCIENCES	813	244	569	625	188	689	124	722	91
GEOSCIENCES	7,455	2,436	5,019	6,547	908	5,686	1,769	6,030	1,425
OCEANOGRAPHY	1,593	410	1,183	1,253	340	1,149	444	1,337	256
ENVIRONMENTAL SCIENCES, N.E.C.	1,470	554	916	1,288	182	1,001	469	1,272	198
MATHEMATICAL/COMPUTER SCIENCES	20,050	7,057	12,993	13,016	7,034	14,960	5,090	14,567	5,483
COMPUTER SCIENCE	9,365	3,424	5,941	6,168	3,197	7,039	2,326	6,512	2,853
MATHEMATICS AND APPLIED MATHEMATICS	9,108	3,159	5,949	6,016	3,092	6,798	2,310	6,697	2,411
STATISTICS	1,577	474	1,103	832	745	1,123	454	1,358	219
LIFE SCIENCES	70,676	23,142	47,534	60,885	9,791	37,132	33,544	54,638	16,038
AGRICULTURAL SCIENCES	10,050	2,974	7,076	7,636	2,414	7,556	2,494	9,734	316
BIOLOGICAL SCIENCES	37,024	9,649	27,375	32,009	5,015	22,329	14,695	27,623	9,401
ANATOMY	969	226	743	880	89	599	370	603	366
BIOCHEMISTRY	3,820	937	2,883	3,155	665	2,479	1,341	2,580	1,240
BIOLOGY	9,192	2,645	6,547	8,322	870	5,594	3,598	6,448	2,744
BIOMETRY/EPIDEMIOLOGY	923	272	651	772	151	454	469	485	438
BIOPHYSICS	425	104	321	355	70	318	107	235	190
BOTANY	3,131	787	2,344	2,552	579	1,998	1,133	2,877	254
CELL BIOLOGY	1,029	202	827	934	95	650	379	557	472
ECOLOGY	892	184	708	812	80	588	304	844	48
ENTOMOLOGY/PARASITOLOGY	1,340	283	1,057	1,113	227	1,021	319	1,291	49
GENETICS	907	239	668	793	114	430	477	650	257
MICROBIOLOGY	3,665	927	2,738	3,197	468	2,084	1,581	2,726	939
NUTRITION	3,114	946	2,168	2,305	809	1,152	1,962	2,442	672
PATHOLOGY	1,087	266	821	918	169	668	419	752	335
PHARMACOLOGY	1,946	433	1,513	1,702	244	1,271	675	1,324	622
PHYSIOLOGY	1,808	519	1,289	1,620	188	1,205	603	1,226	582
ZOOLOGY	2,155	486	1,669	2,020	135	1,449	706	2,022	133
BIOSCIENCES, N.E.C.	621	193	428	559	62	369	252	561	60
HEALTH SCIENCES	23,602	10,519	13,083	21,240	2,362	7,247	16,355	17,281	6,321
ANESTHESIOLOGY	21	7	14	19	2	8	13	20	1
CANCER/ONCOLOGY	55	11	44	55	0	39	16	55	0
CARDIOLOGY	28	25	3	28	0	16	12	0	28
DENTISTRY	808	297	511	651	157	657	151	567	241
ENDOCRINOLOGY	51	10	41	44	7	20	31	50	1
GASTROENTEROLOGY	7	4	3	7	0	6	1	1	6
HEMATOLOGY	6	3	3	6	0	1	5	6	0
NEUROLOGY	325	65	260	306	19	213	112	171	154
NURSING	6,662	3,078	3,584	6,460	202	378	6,284	4,830	1,832
OBSTETRICS/GYNECOLOGY	20	9	11	10	10	8	12	7	13
OPHTHALMOLOGY	19	2	17	15	4	16	3	15	4
OTORHINOLARYNGOLOGY	16	8	8	16	0	13	3	13	3
PEDIATRICS	144	58	86	125	19	68	76	97	47
PHARMACEUTICAL SCIENCES	1,709	455	1,254	1,121	588	1,197	512	1,460	249
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,051	2,212	1,839	3,354	697	1,840	2,211	2,705	1,346
PSYCHIATRY	72	12	60	66	6	38	34	59	13
PULMONARY DISEASE	12	6	6	11	1	9	3	10	2
RADIOLOGY	211	67	144	172	39	157	54	134	77
SPEECH PATHOLOGY/AUDIOLOGY	5,449	2,478	2,971	5,235	214	818	4,631	4,561	888
SURGERY	90	36	54	71	19	78	12	65	25
VETERINARY SCIENCES	390	103	287	290	100	247	143	316	74
CLINICAL MEDICINE, N.E.C.	367	133	234	307	60	196	171	240	127
HEALTH RELATED, N.E.C.	3,089	1,440	1,649	2,871	218	1,224	1,865	1,899	1,190
PSYCHOLOGY	25,883	7,603	18,280	24,789	1,094	11,267	14,616	15,661	10,222
SOCIAL SCIENCES	53,372	18,739	34,633	42,918	10,454	30,604	22,768	36,049	17,323
AGRICULTURAL ECONOMICS	1,950	620	1,330	1,248	702	1,558	392	1,858	92
ANTHROPOLOGY	4,105	917	3,188	3,719	386	1,903	2,202	2,884	1,221
ECONOMICS (EXCEPT AGRICULTURAL)	9,548	3,115	6,433	5,963	3,585	7,282	2,266	6,204	3,344
GEOGRAPHY	2,201	729	1,472	1,804	397	1,541	660	2,003	198
HISTORY AND PHILOSOPHY OF SCIENCE	223	53	170	188	35	149	74	122	101
LINGUISTICS	2,139	651	1,488	1,430	709	943	1,196	1,507	632
POLITICAL SCIENCE	13,681	5,352	8,329	11,140	2,541	9,142	4,539	7,792	5,889
SOCIOLOGY	5,062	1,318	3,744	4,060	1,002	2,428	2,634	3,610	1,452
SOCIOLOGY/ANTHROPOLOGY	647	223	424	518	129	324	323	457	190
SOCIAL SCIENCES, N.E.C.	13,816	5,761	8,055	12,848	968	5,334	8,482	9,612	4,204

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-8. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	237,676	76,782	160,894	182,233	55,443	157,711	79,965	170,523	67,153
ENGINEERING	49,106	17,796	31,310	28,148	20,958	43,793	5,313	34,077	15,029
AEROSPACE	1,519	531	988	944	575	1,446	73	1,091	428
AGRICULTURAL	739	248	491	398	341	689	50	686	53
BIOMEDICAL	908	342	566	709	199	734	174	529	379
CHEMICAL	5,546	1,839	3,707	3,224	2,322	4,884	662	3,822	1,724
CIVIL	9,513	3,567	5,946	5,541	3,972	8,149	1,364	6,942	2,571
ELECTRICAL	11,293	4,400	6,893	6,269	5,024	10,489	804	7,396	3,897
ENGINEERING SCIENCE	1,339	393	946	873	466	1,208	131	798	541
INDUSTRIAL	3,816	1,378	2,438	2,217	1,599	3,034	782	2,761	1,055
MECHANICAL	7,224	2,713	4,511	3,769	3,455	6,798	426	5,108	2,116
METALLURGICAL/MATERIALS	2,453	644	1,809	1,280	1,173	2,148	305	1,523	930
MINING	351	107	244	234	117	318	33	287	64
NUCLEAR	1,042	331	711	569	473	969	73	815	227
PETROLEUM	470	171	299	214	256	437	33	279	191
ENGINEERING, N.E.C.	2,893	1,132	1,761	1,907	986	2,490	403	2,040	853
PHYSICAL SCIENCES	23,365	5,906	17,459	17,062	6,303	19,158	4,207	16,756	6,609
ASTRONOMY	590	146	444	488	102	496	94	382	208
CHEMISTRY	13,767	3,533	10,234	10,678	3,089	10,580	3,187	10,165	3,602
PHYSICS	8,955	2,212	6,743	5,848	3,107	8,045	910	6,156	2,799
PHYSICAL SCIENCES, N.E.C.	53	15	38	48	5	37	16	53	0
ENVIRONMENTAL SCIENCES	10,747	3,394	7,353	9,174	1,573	8,111	2,636	8,869	1,878
ATMOSPHERIC SCIENCES	805	238	567	618	187	683	122	714	91
GEOSCIENCES	7,219	2,353	4,866	6,321	898	5,495	1,724	5,794	1,425
OCEANOGRAPHY	1,551	378	1,173	1,213	338	1,130	421	1,295	256
ENVIRONMENTAL SCIENCES, N.E.C.	1,172	425	747	1,022	150	803	369	1,066	106
MATHEMATICAL/COMPUTER SCIENCES	18,181	6,338	11,843	11,699	6,482	13,656	4,525	13,320	4,861
COMPUTER SCIENCE	8,168	3,003	5,165	5,354	2,814	6,162	2,006	5,917	2,251
MATHEMATICS AND APPLIED MATHEMATICS	8,451	2,873	5,578	5,528	2,923	6,379	2,072	6,059	2,392
STATISTICS	1,562	462	1,100	817	745	1,115	447	1,344	218
LIFE SCIENCES	66,094	21,118	44,976	56,747	9,347	35,266	30,828	51,228	14,866
AGRICULTURAL SCIENCES	9,675	2,825	6,850	7,381	2,294	7,270	2,405	9,422	253
BIOLOGICAL SCIENCES	35,212	8,961	26,251	30,373	4,839	21,315	13,897	26,090	9,122
ANATOMY	969	226	743	880	89	599	370	603	366
BIOCHEMISTRY	3,802	930	2,872	3,141	661	2,463	1,339	2,580	1,222
BIOLOGY	7,732	2,105	5,627	6,987	745	4,739	2,993	5,140	2,592
BIOMETRY/EPIDEMIOLOGY	923	272	651	772	151	454	469	485	438
BIOPHYSICS	425	104	321	355	70	318	107	235	190
BOTANY	3,118	780	2,338	2,539	579	1,988	1,130	2,866	252
CELL BIOLOGY	1,029	202	827	934	95	650	379	557	472
ECOLOGY	887	179	708	807	80	584	303	839	48
ENTOMOLOGY/PARASITOLOGY	1,340	283	1,057	1,113	227	1,021	319	1,291	49
GENETICS	860	216	644	749	111	426	434	650	210
MICROBIOLOGY	3,641	919	2,722	3,179	462	2,072	1,569	2,713	928
NUTRITION	3,020	907	2,093	2,231	789	1,123	1,897	2,349	671
PATHOLOGY	1,015	244	771	854	161	635	380	686	329
PHARMACOLOGY	1,945	433	1,512	1,701	244	1,270	675	1,324	621
PHYSIOLOGY	1,808	519	1,289	1,620	188	1,205	603	1,226	582
ZOOLOGY	2,137	476	1,661	2,004	133	1,435	702	2,009	128
BIOSCIENCES, N.E.C.	561	146	415	507	54	333	228	537	24
HEALTH SCIENCES	21,207	9,332	11,875	18,993	2,214	6,681	14,526	15,716	5,491
ANESTHESIOLOGY	21	7	14	19	2	8	13	20	1
CANCER/ONCOLOGY	55	11	44	55	0	39	16	55	0
CARDIOLOGY	3	0	3	3	0	2	1	0	3
DENTISTRY	808	297	511	651	157	657	151	567	241
ENDOCRINOLOGY	51	10	41	44	7	20	31	50	1
GASTROENTEROLOGY	7	4	3	7	0	6	1	1	6
HEMATOLOGY	6	3	3	6	0	1	5	6	0
NEUROLOGY	311	57	254	294	17	207	104	171	140
NURSING	6,232	2,919	3,313	6,035	197	349	5,883	4,625	1,607
OBSTETRICS/GYNECOLOGY	20	9	11	10	10	8	12	7	13
OPHTHALMOLOGY	19	2	17	15	4	16	3	15	4
OTORHINOLARYNGOLOGY	16	8	8	16	0	13	3	13	3
PEDIATRICS	144	58	86	125	19	68	76	97	47
PHARMACEUTICAL SCIENCES	1,696	448	1,248	1,114	582	1,188	508	1,448	248
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,023	2,192	1,831	3,328	695	1,835	2,188	2,677	1,346
PSYCHIATRY	72	12	60	66	6	38	34	59	13
PULMONARY DISEASE	12	6	6	11	1	9	3	10	2
RADIOLOGY	211	67	144	172	39	157	54	134	77
SPEECH PATHOLOGY/AUDIOLOGY	4,493	1,957	2,536	4,305	188	737	3,756	3,753	740
SURGERY	90	36	54	71	19	78	12	65	25
VETERINARY SCIENCES	368	97	271	276	92	234	134	316	52
CLINICAL MEDICINE, N.E.C.	298	89	209	252	46	177	121	200	98
HEALTH RELATED, N.E.C.	2,251	1,043	1,208	2,118	133	834	1,417	1,427	824
PSYCHOLOGY	21,144	5,502	15,642	20,246	898	9,580	11,564	12,978	8,166
SOCIAL SCIENCES	49,039	16,728	32,311	39,157	9,882	28,147	20,892	33,295	15,744
AGRICULTURAL ECONOMICS	1,928	603	1,325	1,238	690	1,540	388	1,836	92
ANTHROPOLOGY	4,027	896	3,131	3,648	379	1,861	2,166	2,806	1,221
ECONOMICS (EXCEPT AGRICULTURAL)	9,151	2,925	6,226	5,761	3,390	6,979	2,172	5,918	3,233
GEOGRAPHY	2,035	662	1,373	1,654	381	1,422	613	1,837	198
HISTORY AND PHILOSOPHY OF SCIENCE	223	53	170	188	35	149	74	122	101
LINGUISTICS	2,127	648	1,479	1,419	708	939	1,188	1,495	632
POLITICAL SCIENCE	12,086	4,619	7,467	9,739	2,347	8,093	3,993	6,827	5,259
SOCIOLOGY	4,820	1,203	3,617	3,840	980	2,334	2,486	3,374	1,446
SOCIOLOGY/ANTHROPOLOGY	602	200	402	475	127	298	304	424	178
SOCIAL SCIENCES, N.E.C.	12,040	4,919	7,121	11,195	845	4,532	7,508	8,656	3,384

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-9. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	18,283	7,968	10,315	15,699	2,584	9,559	8,724	12,108	6,175
ENGINEERING	1,470	578	892	880	590	1,322	148	922	548
AEROSPACE	3	1	2	1	2	3	0	0	3
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	23	8	15	23	0	17	6	19	4
CHEMICAL	62	40	22	43	19	52	10	13	49
CIVIL	296	108	188	188	108	266	30	212	84
ELECTRICAL	240	66	174	152	88	226	14	120	120
ENGINEERING SCIENCE	25	10	15	21	4	21	4	11	14
INDUSTRIAL	241	73	168	145	96	209	32	172	69
MECHANICAL	140	50	90	84	56	131	9	86	54
METALLURGICAL/MATERIALS	25	9	16	17	8	22	3	25	0
MINING	22	9	13	17	5	20	2	22	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	6	5	1	2	4	6	0	6	0
ENGINEERING, N.E.C.	387	199	188	187	200	349	38	236	151
PHYSICAL SCIENCES	706	285	421	521	185	509	197	600	106
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	541	230	311	409	132	372	169	449	92
PHYSICS	125	48	77	77	48	108	17	111	14
PHYSICAL SCIENCES, N.E.C.	40	7	33	35	5	29	11	40	0
ENVIRONMENTAL SCIENCES	584	250	334	539	45	414	170	492	92
ATMOSPHERIC SCIENCES	8	6	2	7	1	6	2	8	0
GEOSCIENCES	236	83	153	226	10	191	45	236	0
OCEANOGRAPHY	42	32	10	40	2	19	23	42	0
ENVIRONMENTAL SCIENCES, N.E.C.	298	129	169	266	32	198	100	206	92
MATHEMATICAL/COMPUTER SCIENCES	1,869	719	1,150	1,317	552	1,304	565	1,247	622
COMPUTER SCIENCE	1,197	421	776	814	383	877	320	595	602
MATHEMATICS AND APPLIED MATHEMATICS	657	286	371	488	169	419	238	638	19
STATISTICS	15	12	3	15	0	8	7	14	1
LIFE SCIENCES	4,582	2,024	2,558	4,138	444	1,866	2,716	3,410	1,172
AGRICULTURAL SCIENCES	375	149	226	255	120	286	89	312	63
BIOLOGICAL SCIENCES	1,812	688	1,124	1,636	176	1,014	798	1,533	279
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	18	7	11	14	4	16	2	0	18
BIOLOGY	1,460	540	920	1,335	125	855	605	1,308	152
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	13	7	6	13	0	10	3	11	2
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	5	5	0	5	0	4	1	5	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	47	23	24	44	3	4	43	0	47
MICROBIOLOGY	24	8	16	18	6	12	12	13	11
NUTRITION	94	19	75	74	20	29	65	93	1
PATHOLOGY	72	22	50	64	8	33	39	66	6
PHARMACOLOGY	1	0	1	1	0	1	0	0	1
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	18	10	8	16	2	14	4	13	5
BIOSCIENCES, N.E.C.	60	47	13	52	8	36	24	24	36
HEALTH SCIENCES	2,395	1,187	1,208	2,247	148	566	1,829	1,565	830
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	25	25	0	25	0	14	11	0	25
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	14	8	6	12	2	6	8	0	14
NURSING	430	159	271	425	5	29	401	205	225
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	7	6	7	6	9	4	12	1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	28	20	8	26	2	5	23	28	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	956	521	435	930	26	81	875	808	148
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	6	16	14	8	13	9	0	22
CLINICAL MEDICINE, N.E.C.	69	44	25	55	14	19	50	40	29
HEALTH RELATED, N.E.C.	838	397	441	753	85	390	448	472	366
PSYCHOLOGY	4,739	2,101	2,638	4,543	196	1,687	3,052	2,683	2,056
SOCIAL SCIENCES	4,333	2,011	2,322	3,761	572	2,457	1,876	2,754	1,579
AGRICULTURAL ECONOMICS	22	17	5	10	12	18	4	22	0
ANTHROPOLOGY	78	21	57	71	7	42	36	78	0
ECONOMICS (EXCEPT AGRICULTURAL)	397	190	207	202	195	303	94	286	111
GEOGRAPHY	166	67	99	150	16	119	47	166	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	12	3	9	11	1	4	8	12	0
POLITICAL SCIENCE	1,595	733	862	1,401	194	1,049	546	965	630
SOCIOLOGY	242	115	127	220	22	94	148	236	6
SOCIOLOGY/ANTHROPOLOGY	45	23	22	43	2	26	19	33	12
SOCIAL SCIENCES, N.E.C.	1,776	842	934	1,653	123	802	974	956	820

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1982

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	255,959	50,576	24,071	11,331	20,050	70,676	25,883	53,372
FEDERAL, TOTAL	48,801	11,190	7,725	2,850	1,984	18,562	2,427	4,063
DEPT OF DEFENSE	6,063	3,465	708	299	847	328	128	288
DEPT OF HHS, TOTAL	16,524	505	1,518	77	86	12,034	1,328	976
NIH	11,148	403	1,435	42	67	8,071	748	382
OTHER HHS	5,376	102	83	35	19	3,963	580	594
NSF	9,318	2,577	3,119	1,193	619	1,246	209	355
ALL OTHER FEDERAL	16,896	4,643	2,380	1,281	432	4,954	762	2,444
INSTITUTIONAL SUPPORT	97,745	15,596	13,021	4,229	9,894	25,270	9,407	20,328
OTHER OUTSIDE SUPPORT, TOTAL	24,629	7,902	1,786	1,197	1,343	6,589	1,399	4,413
ALL OTHER U.S.	15,432	5,362	1,331	820	764	3,854	1,317	1,984
FOREIGN	9,197	2,540	455	377	579	2,735	82	2,429
SELF-SUPPORT	84,784	15,888	1,539	3,055	6,829	20,255	12,650	24,568
MEN:								
TOTAL, ALL SOURCES	167,270	45,115	19,667	8,525	14,960	37,132	11,267	30,604
FEDERAL, TOTAL	33,463	10,226	6,530	2,202	1,721	9,337	1,202	2,245
DEPT OF DEFENSE	5,511	3,294	626	267	786	210	79	249
DEPT OF HHS, TOTAL	8,131	422	1,141	52	69	5,490	634	323
NIH	6,801	338	1,073	30	58	4,832	339	131
OTHER HHS	1,330	84	68	22	11	658	295	192
NSF	7,638	2,375	2,700	909	514	810	105	225
ALL OTHER FEDERAL	12,183	4,135	2,063	974	352	2,827	384	1,448
INSTITUTIONAL SUPPORT	65,104	13,762	10,382	3,046	7,310	14,478	4,258	11,868
OTHER OUTSIDE SUPPORT, TOTAL	19,441	7,175	1,491	969	1,055	4,675	737	3,339
ALL OTHER U.S.	11,608	4,779	1,101	631	593	2,436	699	1,369
FOREIGN	7,833	2,396	390	338	462	2,239	38	1,970
SELF-SUPPORT	49,262	13,952	1,264	2,308	4,874	8,642	5,070	13,152
WOMEN:								
TOTAL, ALL SOURCES	88,689	5,461	4,404	2,806	5,090	33,544	14,616	22,768
FEDERAL, TOTAL	15,338	964	1,195	648	263	9,225	1,225	1,818
DEPT OF DEFENSE	552	171	82	32	61	118	49	39
DEPT OF HHS, TOTAL	8,393	83	377	25	17	6,544	694	653
NIH	4,347	65	362	12	9	3,239	409	251
OTHER HHS	4,046	18	15	13	8	3,305	285	402
NSF	1,680	202	419	284	105	436	104	130
ALL OTHER FEDERAL	4,713	508	317	307	80	2,127	378	996
INSTITUTIONAL SUPPORT	32,641	1,834	2,639	1,183	2,584	10,792	5,149	8,460
OTHER OUTSIDE SUPPORT, TOTAL	5,188	727	295	228	288	1,914	662	1,074
ALL OTHER U.S.	3,824	583	230	189	171	1,418	618	615
FOREIGN	1,364	144	65	39	117	496	44	459
SELF-SUPPORT	35,522	1,936	275	747	1,955	11,613	7,580	11,416

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-11. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1982

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	237,676	49,106	23,365	10,747	18,181	66,094	21,144	49,039
FEDERAL, TOTAL	47,485	11,100	7,656	2,804	1,866	17,983	2,289	3,787
DEPT OF DEFENSE	5,954	3,429	707	299	816	322	114	267
DEPT OF HHS, TOTAL	16,178	501	1,490	73	85	11,804	1,305	920
NIH	10,994	403	1,408	38	67	7,986	725	367
OTHER HHS	5,184	98	82	35	18	3,818	580	553
NSF	9,219	2,571	3,107	1,187	615	1,182	207	350
ALL OTHER FEDERAL	16,134	4,599	2,352	1,245	350	4,675	663	2,250
INSTITUTIONAL SUPPORT	93,478	15,196	12,596	4,070	9,424	23,974	8,601	19,617
OTHER OUTSIDE SUPPORT, TOTAL	23,796	7,714	1,744	1,167	1,206	6,408	1,379	4,178
ALL OTHER U.S.	14,959	5,279	1,299	794	684	3,722	1,306	1,875
FOREIGN	8,837	2,435	445	373	522	2,686	73	2,303
SELF-SUPPORT	72,917	15,096	1,369	2,706	5,685	17,729	8,875	21,457
MEN:								
TOTAL, ALL SOURCES	157,711	43,793	19,158	8,111	13,656	35,266	9,580	28,147
FEDERAL, TOTAL	32,756	10,143	6,480	2,165	1,629	9,113	1,124	2,102
DEPT OF DEFENSE	5,415	3,258	626	267	758	206	69	231
DEPT OF HHS, TOTAL	8,017	419	1,126	49	68	5,424	628	303
NIH	6,733	338	1,059	27	58	4,791	333	127
OTHER HHS	1,284	81	67	22	10	633	295	176
NSF	7,570	2,369	2,688	904	511	772	104	222
ALL OTHER FEDERAL	11,754	4,097	2,040	945	292	2,711	323	1,346
INSTITUTIONAL SUPPORT	62,679	13,409	10,069	2,943	7,017	13,852	3,948	11,441
OTHER OUTSIDE SUPPORT, TOTAL	18,843	7,002	1,460	948	953	4,589	730	3,161
ALL OTHER U.S.	11,313	4,708	1,077	613	531	2,384	695	1,305
FOREIGN	7,530	2,294	383	335	422	2,205	35	1,856
SELF-SUPPORT	43,433	13,239	1,149	2,055	4,057	7,712	3,778	11,443
WOMEN:								
TOTAL, ALL SOURCES	79,965	5,313	4,207	2,636	4,525	30,828	11,564	20,892
FEDERAL, TOTAL	14,729	957	1,176	639	237	8,870	1,165	1,685
DEPT OF DEFENSE	539	171	81	32	58	116	45	36
DEPT OF HHS, TOTAL	8,161	82	364	24	17	6,380	677	617
NIH	4,261	65	349	11	9	3,195	392	240
OTHER HHS	3,900	17	15	13	8	3,185	285	377
NSF	1,649	202	419	283	104	410	103	128
ALL OTHER FEDERAL	4,380	502	312	300	58	1,964	340	904
INSTITUTIONAL SUPPORT	30,799	1,787	2,527	1,127	2,407	10,122	4,653	8,176
OTHER OUTSIDE SUPPORT, TOTAL	4,953	712	284	219	253	1,819	649	1,017
ALL OTHER U.S.	3,646	571	222	181	153	1,338	611	570
FOREIGN	1,307	141	62	38	100	481	38	447
SELF-SUPPORT	29,484	1,857	220	651	1,628	10,017	5,097	10,014

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-12. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1982

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	18,283	1,470	706	584	1,869	4,582	4,739	4,333
FEDERAL, TOTAL	1,316	90	69	46	118	579	138	276
DEPT OF DEFENSE	109	36	1	0	31	6	14	21
DEPT OF HHS, TOTAL	346	4	28	4	1	230	23	56
NIH	154	0	27	4	0	85	23	15
OTHER HHS	192	4	1	0	1	145	0	41
NSF	99	6	12	6	4	64	2	5
ALL OTHER FEDERAL	762	44	28	36	82	279	99	194
INSTITUTIONAL SUPPORT	4,267	400	425	159	470	1,296	806	711
OTHER OUTSIDE SUPPORT, TOTAL	833	188	42	30	137	181	20	235
ALL OTHER U.S.	473	83	32	26	80	132	11	109
FOREIGN	360	105	10	4	57	49	9	126
SELF-SUPPORT	11,867	792	170	349	1,144	2,526	3,775	3,111
MEN:								
TOTAL, ALL SOURCES	9,559	1,322	509	414	1,304	1,866	1,687	2,457
FEDERAL, TOTAL	707	83	50	37	92	224	78	143
DEPT OF DEFENSE	96	36	0	0	28	4	10	18
DEPT OF HHS, TOTAL	114	3	15	3	1	66	6	20
NIH	68	0	14	3	0	41	6	4
OTHER HHS	46	3	1	0	1	25	0	16
NSF	68	6	12	5	3	38	1	3
ALL OTHER FEDERAL	429	38	23	29	60	116	61	102
INSTITUTIONAL SUPPORT	2,425	353	313	103	293	626	310	427
OTHER OUTSIDE SUPPORT, TOTAL	598	173	31	21	102	86	7	178
ALL OTHER U.S.	295	71	24	18	62	52	4	64
FOREIGN	303	102	7	3	40	34	3	114
SELF-SUPPORT	5,829	713	115	253	817	930	1,292	1,709
WOMEN:								
TOTAL, ALL SOURCES	8,724	148	197	170	565	2,716	3,052	1,876
FEDERAL, TOTAL	609	7	19	9	26	355	60	133
DEPT OF DEFENSE	13	0	1	0	3	2	4	3
DEPT OF HHS, TOTAL	232	1	13	1	0	164	17	36
NIH	86	0	13	1	0	44	17	11
OTHER HHS	146	1	0	0	0	120	0	25
NSF	31	0	0	1	1	26	1	2
ALL OTHER FEDERAL	333	6	5	7	22	163	38	92
INSTITUTIONAL SUPPORT	1,842	47	112	56	177	670	496	284
OTHER OUTSIDE SUPPORT, TOTAL	235	15	11	9	35	95	13	57
ALL OTHER U.S.	178	12	8	8	18	80	7	45
FOREIGN	57	3	3	1	17	15	6	12
SELF-SUPPORT	6,038	79	55	96	327	1,596	2,483	1,402

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-13. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY HIGHEST DEGREE GRANTED AND SOURCE AND TYPE OF MAJOR SUPPORT: 1982

HIGHEST DEGREE GRANTED AND SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
ALL INSTITUTIONS:						
TOTAL, ALL SOURCES	255,959	21,639	15,561	53,294	58,820	106,645
FEDERAL, TOTAL	48,801	4,303	10,739	28,497	438	4,824
DEPT OF DEFENSE	6,063	204	34	3,476	0	2,349
DEPT OF HHS, TOTAL	16,524	929	9,181	5,873	110	431
NIH	11,148	681	4,824	5,353	49	241
OTHER HHS	5,376	248	4,357	520	61	190
NSF	9,318	1,309	91	7,775	27	116
ALL OTHER FEDERAL	16,896	1,861	1,433	11,373	301	1,928
INSTITUTIONAL SUPPORT	97,745	9,836	3,619	17,897	57,893	8,500
OTHER OUTSIDE SUPPORT, TOTAL	24,629	7,500	1,203	6,900	489	8,537
ALL OTHER U.S.	15,432	3,701	890	6,291	489	4,061
FOREIGN	9,197	3,799	313	609	0	4,476
SELF-SUPPORT	84,784	0	0	0	0	84,784
DOCTORATE-GRANTING:						
TOTAL, ALL SOURCES	237,676	21,130	15,006	52,094	56,221	93,225
FEDERAL, TOTAL	47,485	4,200	10,344	28,178	382	4,381
DEPT OF DEFENSE	5,954	201	33	3,467	0	2,253
DEPT OF HHS, TOTAL	16,178	925	8,954	5,796	102	401
NIH	10,994	677	4,752	5,281	49	235
OTHER HHS	5,184	248	4,202	515	53	166
NSF	9,219	1,293	73	7,743	24	86
ALL OTHER FEDERAL	16,134	1,781	1,284	11,172	256	1,641
INSTITUTIONAL SUPPORT	93,478	9,545	3,488	17,111	55,398	7,936
OTHER OUTSIDE SUPPORT, TOTAL	23,796	7,385	1,174	6,805	441	7,991
ALL OTHER U.S.	14,959	3,654	875	6,203	441	3,786
FOREIGN	8,837	3,731	299	602	0	4,205
SELF-SUPPORT	72,917	0	0	0	0	72,917
MASTER'S-GRANTING:						
TOTAL, ALL SOURCES	18,283	509	555	1,200	2,599	13,420
FEDERAL, TOTAL	1,316	103	395	319	56	443
DEPT OF DEFENSE	109	3	1	9	0	96
DEPT OF HHS, TOTAL	346	4	227	77	8	30
NIH	154	4	72	72	0	6
OTHER HHS	192	0	155	5	8	24
NSF	99	16	18	32	3	30
ALL OTHER FEDERAL	762	80	149	201	45	287
INSTITUTIONAL SUPPORT	4,267	291	131	786	2,495	564
OTHER OUTSIDE SUPPORT, TOTAL	833	115	29	95	48	546
ALL OTHER U.S.	473	47	15	88	48	275
FOREIGN	360	68	14	7	0	271
SELF-SUPPORT	11,867	0	0	0	0	11,867

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-14. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1982

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	255,959	21,639	15,561	53,294	58,820	106,645
ENGINEERING	50,576	4,722	813	14,730	9,243	21,068
AEROSPACE	1,522	107	40	617	228	530
AGRICULTURAL	739	59	11	427	45	197
BIOMEDICAL	931	70	51	304	90	416
CHEMICAL	5,608	868	160	2,099	1,048	1,433
CIVIL	9,809	710	107	2,117	1,511	5,364
ELECTRICAL	11,533	1,044	119	2,950	2,588	4,832
ENGINEERING SCIENCE	1,364	206	31	524	216	387
INDUSTRIAL	4,057	268	64	561	755	2,409
MECHANICAL	7,364	598	110	2,209	1,667	2,780
METALLURGICAL/MATERIALS	2,478	312	18	1,522	258	368
MINING	373	41	11	141	70	110
NUCLEAR	1,042	123	35	412	137	335
PETROLEUM	476	87	15	100	62	212
ENGINEERING, N.E.C.	3,280	229	41	747	568	1,695
PHYSICAL SCIENCES	24,071	1,930	395	8,780	10,741	2,225
ASTRONOMY	590	75	12	250	189	64
CHEMISTRY	14,308	1,103	272	4,911	6,940	1,082
PHYSICS	9,080	744	110	3,588	3,592	1,046
PHYSICAL SCIENCES, N.E.C.	93	8	1	31	20	33
ENVIRONMENTAL SCIENCES	11,331	852	281	3,334	2,819	4,045
ATMOSPHERIC SCIENCES	813	30	3	468	99	213
GEOSCIENCES	7,455	644	126	1,773	2,248	2,664
OCEANOGRAPHY	1,593	106	105	780	166	436
ENVIRONMENTAL SCIENCES, N.E.C.	1,470	72	47	313	306	732
MATHEMATICAL/COMPUTER SCIENCES	20,050	1,087	200	2,080	8,157	8,526
COMPUTER SCIENCE	9,365	433	74	1,291	2,111	5,456
MATHEMATICS AND APPLIED MATHEMATICS	9,108	557	115	491	5,410	2,535
STATISTICS	1,577	97	11	298	636	535
LIFE SCIENCES	70,676	5,640	10,247	16,401	12,972	25,416
AGRICULTURAL SCIENCES	10,050	584	227	4,647	943	3,649
BIOLOGICAL SCIENCES	37,024	3,568	4,359	10,096	9,734	9,267
ANATOMY	969	140	123	142	321	243
BIOCHEMISTRY	3,820	443	541	1,644	663	529
BIOLOGY	9,192	592	715	1,480	3,857	2,548
BIOMETRY/EPIDEMIOLOGY	923	98	290	99	41	395
BIOPHYSICS	425	37	124	133	38	93
BOTANY	3,131	187	44	1,309	920	671
CELL BIOLOGY	1,029	176	384	265	139	65
ECOLOGY	892	87	24	233	292	256
ENTOMOLOGY/PARASITOLOGY	1,340	124	25	764	155	272
GENETICS	907	112	192	260	128	215
MICROBIOLOGY	3,665	356	525	1,088	915	781
NUTRITION	3,114	254	124	1,090	261	1,385
PATHOLOGY	1,087	197	167	223	103	397
PHARMACOLOGY	1,946	313	574	410	280	369
PHYSIOLOGY	1,808	190	290	432	363	533
ZOOLOGY	2,155	136	72	380	1,158	409
BIOSCIENCES, N.E.C.	621	126	145	144	100	106
HEALTH SCIENCES	23,602	1,488	5,661	1,658	2,295	12,500
ANESTHESIOLOGY	21	2	0	0	0	19
CANCER/ONCOLOGY	55	5	38	12	0	0
CARDIOLOGY	28	3	0	0	0	25
DENTISTRY	808	144	80	12	135	437
ENDOCRINOLOGY	51	10	20	10	6	5
GASTROENTEROLOGY	7	6	1	0	0	0
HEMATOLOGY	6	1	0	0	0	5
NEUROLOGY	325	84	79	92	35	35
NURSING	6,662	190	3,106	132	284	2,950
OBSTETRICS/GYNECOLOGY	20	0	5	8	0	7
OPHTHALMOLOGY	19	0	2	11	3	3
OTORHINOLARYNGOLOGY	16	0	12	4	0	0
PEDIATRICS	144	18	44	6	0	76
PHARMACEUTICAL SCIENCES	1,709	167	75	377	657	433
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,051	290	1,052	204	93	2,412
PSYCHIATRY	72	29	15	5	1	22
PULMONARY DISEASE	12	9	0	1	0	2
RADIOLOGY	211	57	53	35	0	66
SPEECH PATHOLOGY/AUDIOLOGY	5,449	229	593	331	815	3,481
SURGERY	90	4	49	4	12	21
VETERINARY SCIENCES	390	61	9	166	51	103
CLINICAL MEDICINE, N.E.C.	367	71	70	61	48	117
HEALTH RELATED, N.E.C.	3,089	108	358	187	155	2,281
PSYCHOLOGY	25,883	1,238	1,802	2,736	4,958	15,149
SOCIAL SCIENCES	53,372	6,170	1,823	5,233	9,930	30,216
AGRICULTURAL ECONOMICS	1,950	178	27	861	125	759
ANTHROPOLOGY	4,105	586	69	315	911	2,224
ECONOMICS (EXCEPT AGRICULTURAL)	9,548	985	172	1,081	2,914	4,396
GEOGRAPHY	2,201	163	36	227	883	892
HISTORY AND PHILOSOPHY OF SCIENCE	223	62	2	11	80	68
LINGUISTICS	2,139	334	34	130	627	1,014
POLITICAL SCIENCE	13,681	2,092	272	947	1,977	8,393
SOCIOLOGY	5,062	687	255	671	1,564	1,885
SOCIOLOGY/ANTHROPOLOGY	647	55	1	133	209	249
SOCIAL SCIENCES, N.E.C.	13,816	1,028	955	857	640	10,336

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-15. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1982

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	237,676	21,130	15,006	52,094	56,221	93,225
ENGINEERING	49,106	4,653	792	14,626	8,989	20,046
AEROSPACE	1,519	107	40	617	227	528
AGRICULTURAL	739	59	11	427	45	197
BIOMEDICAL	908	70	51	304	90	393
CHEMICAL	5,546	861	160	2,097	1,033	1,395
CIVIL	9,513	707	106	2,107	1,491	5,102
ELECTRICAL	11,293	1,042	117	2,933	2,539	4,662
ENGINEERING SCIENCE	1,339	206	31	520	207	375
INDUSTRIAL	3,816	265	64	540	721	2,226
MECHANICAL	7,224	596	110	2,196	1,639	2,683
METALLURGICAL/MATERIALS	2,453	311	18	1,512	253	359
MINING	351	38	11	137	68	97
NUCLEAR	1,042	123	35	412	137	335
PETROLEUM	470	87	15	100	61	207
ENGINEERING, N.E.C.	2,893	181	23	724	478	1,487
PHYSICAL SCIENCES	23,365	1,907	369	8,695	10,388	2,006
ASTRONOMY	590	75	12	250	189	64
CHEMISTRY	13,767	1,084	248	4,841	6,660	934
PHYSICS	8,955	742	108	3,578	3,529	998
PHYSICAL SCIENCES, N.E.C.	53	6	1	26	10	10
ENVIRONMENTAL SCIENCES	10,747	842	276	3,258	2,705	3,666
ATMOSPHERIC SCIENCES	805	29	3	462	99	212
GEOSCIENCES	7,219	638	123	1,760	2,194	2,504
OCEANOGRAPHY	1,551	103	105	780	153	410
ENVIRONMENTAL SCIENCES, N.E.C.	1,172	72	45	256	259	540
MATHEMATICAL/COMPUTER SCIENCES	18,181	1,060	180	2,017	7,788	7,136
COMPUTER SCIENCE	8,168	415	70	1,251	1,997	4,435
MATHEMATICS AND APPLIED MATHEMATICS	8,451	548	99	473	5,158	2,173
STATISTICS	1,562	97	11	293	633	528
LIFE SCIENCES	66,094	5,524	9,922	15,978	12,154	22,516
AGRICULTURAL SCIENCES	9,675	578	226	4,613	905	3,353
BIOLOGICAL SCIENCES	35,212	3,510	4,321	9,819	9,143	8,419
ANATOMY	969	140	123	142	321	243
BIOCHEMISTRY	3,802	437	541	1,633	663	528
BIOLOGY	7,732	544	687	1,262	3,318	1,921
BIOMETRY/EPIDEMIOLOGY	923	98	290	99	41	395
BIOPHYSICS	425	37	124	133	38	93
BOTANY	3,118	187	43	1,309	919	660
CELL BIOLOGY	1,029	176	384	265	139	65
ECOLOGY	887	87	24	233	287	256
ENTOMOLOGY/PARASITOLOGY	1,340	124	25	764	155	272
GENETICS	860	112	192	260	128	168
MICROBIOLOGY	3,641	354	525	1,088	906	768
NUTRITION	3,020	254	123	1,066	256	1,321
PATHOLOGY	1,015	196	160	206	99	354
PHARMACOLOGY	1,945	313	574	410	279	369
PHYSIOLOGY	1,808	190	290	432	363	533
ZOOLOGY	2,137	136	71	379	1,143	408
BIOSCIENCES, N.E.C.	561	125	145	138	88	65
HEALTH SCIENCES	21,207	1,436	5,375	1,546	2,106	10,744
ANESTHESIOLOGY	21	2	0	0	0	19
CANCER/ONCOLOGY	55	5	38	12	0	0
CARDIOLOGY	3	3	0	0	0	0
DENTISTRY	808	144	80	12	135	437
ENDOCRINOLOGY	51	10	20	10	6	5
GASTROENTEROLOGY	7	6	1	0	0	0
HEMATOLOGY	6	1	0	0	0	5
NEUROLOGY	311	84	79	85	35	28
NURSING	6,232	177	2,988	128	270	2,669
OBSTETRICS/GYNECOLOGY	20	0	5	8	0	7
OPHTHALMOLOGY	19	0	2	11	3	3
OTORHINOLARYNGOLOGY	16	0	12	4	0	0
PEDIATRICS	144	18	44	6	0	76
PHARMACEUTICAL SCIENCES	1,696	167	75	376	649	429
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,023	290	1,052	202	90	2,389
PSYCHIATRY	72	29	15	5	1	22
PULMONARY DISEASE	12	9	0	1	0	2
RADIOLOGY	211	57	53	35	0	66
SPEECH PATHOLOGY/AUDIOLOGY	4,493	199	517	308	690	2,779
SURGERY	90	4	49	4	12	21
VETERINARY SCIENCES	368	57	4	161	51	95
CLINICAL MEDICINE, N.E.C.	298	69	70	53	32	74
HEALTH RELATED, N.E.C.	2,251	105	271	125	132	1,618
PSYCHOLOGY	21,144	1,173	1,754	2,521	4,574	11,122
SOCIAL SCIENCES	49,039	5,971	1,713	4,999	9,623	26,733
AGRICULTURAL ECONOMICS	1,928	178	25	848	125	752
ANTHROPOLOGY	4,027	586	69	314	891	2,167
ECONOMICS (EXCEPT AGRICULTURAL)	9,151	951	170	1,052	2,878	4,100
GEOGRAPHY	2,035	163	36	214	840	782
HISTORY AND PHILOSOPHY OF SCIENCE	223	62	2	11	80	68
LINGUISTICS	2,127	334	34	130	627	1,002
POLITICAL SCIENCE	12,086	2,009	251	852	1,866	7,108
SOCIOLOGY	4,820	684	249	636	1,520	1,731
SOCIOLOGY/ANTHROPOLOGY	602	50	1	129	205	217
SOCIAL SCIENCES, N.E.C.	12,040	954	876	813	591	8,806

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-16. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD AND TYPE OF MAJOR SUPPORT: 1982

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	18,283	509	555	1,200	2,599	13,420
ENGINEERING	1,470	69	21	104	254	1,022
AEROSPACE	3	0	0	0	1	2
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	23	0	0	0	0	23
CHEMICAL	62	7	0	2	15	38
CIVIL	296	3	1	10	20	262
ELECTRICAL	240	2	2	17	49	170
ENGINEERING SCIENCE	25	0	0	4	9	12
INDUSTRIAL	241	3	0	21	34	183
MECHANICAL	140	2	0	13	28	97
METALLURGICAL/MATERIALS	25	1	0	10	5	9
MINING	22	3	0	4	2	13
NUCLEAR	0	0	0	0	0	0
PETROLEUM	6	0	0	0	1	5
ENGINEERING, N.E.C.	387	48	18	23	90	208
PHYSICAL SCIENCES	706	23	26	85	353	219
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	541	19	24	70	280	148
PHYSICS	125	2	2	10	63	48
PHYSICAL SCIENCES, N.E.C.	40	2	0	5	10	23
ENVIRONMENTAL SCIENCES	584	10	5	76	114	379
ATMOSPHERIC SCIENCES	8	1	0	6	0	1
GEOSCIENCES	236	6	3	13	54	160
OCEANOGRAPHY	42	3	0	0	13	26
ENVIRONMENTAL SCIENCES, N.E.C.	298	0	2	57	47	192
MATHEMATICAL/COMPUTER SCIENCES	1,869	27	20	63	369	1,390
COMPUTER SCIENCE	1,197	18	4	40	114	1,021
MATHEMATICS AND APPLIED MATHEMATICS	657	9	16	18	252	362
STATISTICS	15	0	0	5	3	7
LIFE SCIENCES	4,582	116	325	423	818	2,900
AGRICULTURAL SCIENCES	375	6	1	34	38	296
BIOLOGICAL SCIENCES	1,812	58	38	277	591	848
ANATOMY	0	0	0	0	0	0
BIOCHEMISTRY	18	6	0	11	0	1
BIOLOGY	1,460	48	28	218	539	627
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	13	0	1	0	1	11
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	5	0	0	0	5	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	47	0	0	0	0	47
MICROBIOLOGY	24	2	0	0	9	13
NUTRITION	94	0	1	24	5	64
PATHOLOGY	72	1	7	17	4	43
PHARMACOLOGY	1	0	0	0	1	0
PHYSIOLOGY	0	0	0	0	0	0
ZOOLOGY	18	0	1	1	15	1
BIOSCIENCES, N.E.C.	60	1	0	6	12	41
HEALTH SCIENCES	2,395	52	286	112	189	1,756
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	25	0	0	0	0	25
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	14	0	0	7	0	7
NURSING	430	13	118	4	14	281
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	0	0	1	8	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	28	0	0	2	3	23
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	956	30	76	23	125	702
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	22	4	5	5	0	8
CLINICAL MEDICINE, N.E.C.	69	2	0	8	16	43
HEALTH RELATED, N.E.C.	838	3	87	62	23	663
PSYCHOLOGY	4,739	65	48	215	384	4,027
SOCIAL SCIENCES	4,333	199	110	234	307	3,483
AGRICULTURAL ECONOMICS	22	0	2	13	0	7
ANTHROPOLOGY	78	0	0	1	20	57
ECONOMICS (EXCEPT AGRICULTURAL)	397	34	2	29	36	296
GEOGRAPHY	166	0	0	13	43	110
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	12	0	0	0	0	12
POLITICAL SCIENCE	1,595	83	21	95	111	1,285
SOCIOLOGY	242	3	6	35	44	154
SOCIOLOGY/ANTHROPOLOGY	45	5	0	4	4	32
SOCIAL SCIENCES, N.E.C.	1,776	74	79	44	49	1,530

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-17. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	255,959	7,219	724	5,663	5,507	159,351	19,468	58,027
ENGINEERING	50,576	543	77	1,425	605	21,796	4,582	21,548
AEROSPACE	1,522	9	0	30	19	659	228	577
AGRICULTURAL	739	5	0	11	7	372	3	341
BIOMEDICAL	931	12	1	25	11	660	23	199
CHEMICAL	5,608	60	9	219	63	2,650	266	2,341
CIVIL	9,809	74	6	217	131	4,463	838	4,080
ELECTRICAL	11,533	144	35	347	143	4,590	1,162	5,112
ENGINEERING SCIENCE	1,364	11	1	33	10	611	228	470
INDUSTRIAL	4,057	85	4	126	90	1,807	250	1,695
MECHANICAL	7,364	58	3	181	70	2,546	995	3,511
METALLURGICAL/MATERIALS	2,478	16	1	65	21	1,134	60	1,181
MINING	373	2	0	14	6	201	28	122
NUCLEAR	1,042	12	1	23	10	500	23	473
PETROLEUM	476	4	0	9	1	198	4	260
ENGINEERING, N.E.C.	3,280	51	16	125	23	1,405	474	1,186
PHYSICAL SCIENCES	24,071	417	32	533	387	14,762	1,452	6,488
ASTRONOMY	590	6	2	1	5	454	20	102
CHEMISTRY	14,308	321	20	371	279	9,125	971	3,221
PHYSICS	9,080	88	10	156	101	5,115	455	3,155
PHYSICAL SCIENCES, N.E.C.	93	2	0	5	2	68	6	10
ENVIRONMENTAL SCIENCES	11,331	72	18	133	128	8,366	996	1,618
ATMOSPHERIC SCIENCES	813	3	1	12	5	593	11	188
GEOSCIENCES	7,455	40	11	78	58	5,664	696	908
OCEANOGRAPHY	1,593	9	1	29	61	1,047	106	340
ENVIRONMENTAL SCIENCES, N.E.C.	1,470	20	5	14	4	1,062	183	182
MATHEMATICAL/COMPUTER SCIENCES	20,050	363	43	663	280	9,924	1,743	7,034
COMPUTER SCIENCE	9,365	189	23	364	105	4,446	1,041	3,197
MATHEMATICS AND APPLIED MATHEMATICS	9,108	158	16	278	162	4,717	685	3,092
STATISTICS	1,577	16	4	21	13	761	17	745
LIFE SCIENCES	70,676	1,728	192	1,627	1,341	51,976	4,021	9,791
AGRICULTURAL SCIENCES	10,050	126	12	117	164	6,578	639	2,414
BIOLOGICAL SCIENCES	37,024	787	68	905	614	27,713	1,922	5,015
ANATOMY	969	17	1	17	13	778	54	89
BIOCHEMISTRY	3,820	62	6	114	61	2,816	96	665
BIOLOGY	9,192	309	22	196	268	6,979	548	870
BIOMETRY/EPIDEMIOLOGY	923	37	6	30	7	692	0	151
BIOPHYSICS	425	4	0	13	3	334	1	70
BOTANY	3,131	26	3	50	32	2,269	172	579
CELL BIOLOGY	1,029	10	4	31	8	859	22	95
ECOLOGY	892	4	0	8	8	649	143	80
ENTOMOLOGY/PARASITOLOGY	1,340	12	0	22	18	950	111	227
GENETICS	907	26	1	33	15	709	9	114
MICROBIOLOGY	3,665	61	5	100	49	2,729	253	468
NUTRITION	3,114	65	5	84	40	1,947	164	809
PATHOLOGY	1,087	17	3	37	14	821	26	169
PHARMACOLOGY	1,946	30	4	59	28	1,502	79	244
PHYSIOLOGY	1,808	36	5	41	22	1,485	31	188
ZOOLOGY	2,155	47	3	42	19	1,774	135	135
BIOSCIENCES, N.E.C.	621	24	0	28	9	420	78	62
HEALTH SCIENCES	23,602	815	112	605	563	17,685	1,460	2,362
ANESTHESIOLOGY	21	0	0	0	0	16	3	2
CANCER/ONCOLOGY	55	1	0	1	1	52	0	0
CARDIOLOGY	28	0	0	0	0	25	3	0
DENTISTRY	808	8	4	11	14	587	27	157
ENDOCRINOLOGY	51	4	0	1	1	37	1	7
GASTROENTEROLOGY	7	1	0	1	0	2	3	0
HEMATOLOGY	6	0	0	0	0	6	0	0
NEUROLOGY	325	1	0	12	2	268	23	19
NURSING	6,662	225	20	118	61	5,476	560	202
OBSTETRICS/GYNECOLOGY	20	2	0	1	0	7	0	10
OPHTHALMOLOGY	19	0	0	1	0	4	10	4
OTORHINOLARYNGOLOGY	16	0	0	0	0	16	0	0
PEDIATRICS	144	11	1	5	2	105	1	19
PHARMACEUTICAL SCIENCES	1,709	29	2	66	15	985	24	588
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,051	169	39	219	229	2,571	127	697
PSYCHIATRY	72	8	0	3	6	42	7	6
PULMONARY DISEASE	12	1	0	0	0	8	2	1
RADIOLOGY	211	2	1	10	2	156	1	39
SPEECH PATHOLOGY/AUDIOLOGY	5,449	204	28	83	132	4,314	474	214
SURGERY	90	1	0	0	0	70	0	19
VETERINARY SCIENCES	390	21	0	5	1	263	0	100
CLINICAL MEDICINE, N.E.C.	367	11	2	13	7	264	10	60
HEALTH RELATED, N.E.C.	3,089	116	15	55	90	2,411	184	218
PSYCHOLOGY	25,883	1,030	75	321	1,038	19,236	3,089	1,094
SOCIAL SCIENCES	53,372	3,066	287	961	1,728	33,291	3,585	10,454
AGRICULTURAL ECONOMICS	1,950	44	5	20	39	1,125	15	702
ANTHROPOLOGY	4,105	56	21	43	98	3,155	346	386
ECONOMICS (EXCEPT AGRICULTURAL)	9,548	245	21	245	182	4,813	457	3,585
GEOGRAPHY	2,201	36	4	22	35	1,606	101	397
HISTORY AND PHILOSOPHY OF SCIENCE	223	2	1	1	2	180	2	35
LINGUISTICS	2,139	20	9	32	42	1,135	192	709
POLITICAL SCIENCE	13,681	1,002	91	205	311	8,040	1,291	2,541
SOCIOLOGY	5,062	358	33	109	214	3,186	160	1,002
SOCIOLOGY/ANTHROPOLOGY	647	95	4	5	11	395	8	129
SOCIAL SCIENCES, N.E.C.	13,816	1,208	98	279	594	9,656	1,013	968

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-18. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	237,676	5,968	625	5,246	5,062	148,350	16,982	55,443
ENGINEERING	49,106	500	72	1,345	580	21,306	4,345	20,958
AEROSPACE	1,519	9	0	30	19	658	228	575
AGRICULTURAL	739	5	0	11	7	372	3	341
BIOMEDICAL	908	12	1	25	11	656	4	199
CHEMICAL	5,546	60	9	211	61	2,617	266	2,322
CIVIL	9,513	72	5	200	125	4,379	760	3,972
ELECTRICAL	11,293	135	34	342	138	4,543	1,077	5,024
ENGINEERING SCIENCE	1,339	11	1	29	10	599	223	466
INDUSTRIAL	3,816	70	3	110	87	1,703	244	1,599
MECHANICAL	7,224	56	3	171	64	2,502	973	3,455
METALLURGICAL/MATERIALS	2,453	16	1	64	21	1,118	60	1,173
MINING	351	2	0	14	6	184	28	117
NUCLEAR	1,042	12	1	23	10	500	23	473
PETROLEUM	470	4	0	9	1	196	4	256
ENGINEERING, N.E.C.	2,893	36	14	106	20	1,279	452	986
PHYSICAL SCIENCES	23,365	339	29	503	376	14,437	1,378	6,303
ASTRONOMY	590	6	2	1	5	454	20	102
CHEMISTRY	13,767	256	17	345	271	8,879	910	3,089
PHYSICS	8,955	77	10	154	99	5,061	447	3,107
PHYSICAL SCIENCES, N.E.C.	53	0	0	3	1	43	1	5
ENVIRONMENTAL SCIENCES	10,747	57	15	124	110	7,954	914	1,573
ATMOSPHERIC SCIENCES	805	3	0	12	5	587	11	187
GEOSCIENCES	7,219	37	11	76	43	5,484	670	898
OCEANOGRAPHY	1,551	9	1	29	60	1,008	106	338
ENVIRONMENTAL SCIENCES, N.E.C.	1,172	8	3	7	2	875	127	150
MATHEMATICAL/COMPUTER SCIENCES	18,181	253	30	557	250	9,101	1,508	6,482
COMPUTER SCIENCE	8,168	110	16	283	88	3,972	885	2,814
MATHEMATICS AND APPLIED MATHEMATICS	8,451	127	10	253	150	4,374	614	2,923
STATISTICS	1,562	16	4	21	12	755	9	745
LIFE SCIENCES	66,094	1,431	171	1,567	1,253	48,760	3,565	9,347
AGRICULTURAL SCIENCES	9,675	108	11	114	159	6,402	587	2,294
BIOLOGICAL SCIENCES	35,212	636	59	875	580	26,434	1,789	4,839
ANATOMY	969	17	1	17	13	778	54	89
BIOCHEMISTRY	3,802	62	6	114	61	2,802	96	661
BIOLOGY	7,732	171	16	173	242	5,953	432	745
BIOMETRY/EPIDEMIOLOGY	923	37	6	30	7	692	0	151
BIOPHYSICS	425	4	0	13	3	334	1	70
BOTANY	3,118	26	3	50	32	2,256	172	579
CELL BIOLOGY	1,029	10	4	31	8	859	22	95
ECOLOGY	887	4	0	8	8	644	143	80
ENTOMOLOGY/PARASITOLOGY	1,340	12	0	22	18	950	111	227
GENETICS	860	24	1	33	13	669	9	111
MICROBIOLOGY	3,641	61	5	100	49	2,718	246	462
NUTRITION	3,020	54	3	79	39	1,893	163	789
PATHOLOGY	1,015	17	2	35	12	770	18	161
PHARMACOLOGY	1,945	30	4	59	28	1,501	79	244
PHYSIOLOGY	1,808	36	5	41	22	1,485	31	188
ZOOLOGY	2,137	47	3	42	19	1,758	135	133
BIOSCIENCES, N.E.C.	561	24	0	28	6	372	77	54
HEALTH SCIENCES	21,207	687	101	578	514	15,924	1,189	2,214
ANESTHESIOLOGY	21	0	0	0	0	16	3	2
CANCER/ONCOLOGY	55	1	0	1	1	52	0	0
CARDIOLOGY	3	0	0	0	0	0	3	0
DENTISTRY	808	8	4	11	14	587	27	157
ENDOCRINOLOGY	51	4	0	1	1	37	1	7
GASTROENTEROLOGY	7	1	0	1	0	2	3	0
HEMATOLOGY	6	0	0	0	0	6	0	0
NEUROLOGY	311	1	0	12	2	256	23	17
NURSING	6,232	188	19	112	55	5,167	494	197
OBSTETRICS/GYNECOLOGY	20	2	0	1	0	7	0	10
OPHTHALMOLOGY	19	0	0	1	0	4	10	4
OTORHINOLARYNGOLOGY	16	0	0	0	0	16	0	0
PEDIATRICS	144	11	1	5	2	105	1	19
PHARMACEUTICAL SCIENCES	1,696	29	2	66	15	979	23	582
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4,023	169	39	219	229	2,567	105	695
PSYCHIATRY	72	8	0	3	6	42	7	6
PULMONARY DISEASE	12	1	0	0	0	8	2	1
RADIOLOGY	211	2	1	10	2	156	1	39
SPEECH PATHOLOGY/AUDIOLOGY	4,493	154	20	72	110	3,543	406	188
SURGERY	90	1	0	0	0	70	0	19
VETERINARY SCIENCES	368	7	0	5	1	263	0	92
CLINICAL MEDICINE, N.E.C.	298	6	2	12	4	224	4	46
HEALTH RELATED, N.E.C.	2,251	94	13	46	72	1,817	76	133
PSYCHOLOGY	21,144	801	53	276	944	15,604	2,568	898
SOCIAL SCIENCES	49,039	2,587	255	874	1,549	31,188	2,704	9,882
AGRICULTURAL ECONOMICS	1,928	37	5	20	39	1,122	15	690
ANTHROPOLOGY	4,027	55	21	42	97	3,106	327	379
ECONOMICS (EXCEPT AGRICULTURAL)	9,151	191	17	238	170	4,735	410	3,390
GEOGRAPHY	2,035	28	3	17	34	1,486	86	381
HISTORY AND PHILOSOPHY OF SCIENCE	223	2	1	1	2	180	2	35
LINGUISTICS	2,127	20	9	32	41	1,129	188	708
POLITICAL SCIENCE	12,086	809	81	169	440	7,280	960	2,347
SOCIOLOGY	4,820	304	30	99	198	3,070	139	980
SOCIOLOGY/ANTHROPOLOGY	602	82	3	5	10	367	8	127
SOCIAL SCIENCES, N.E.C.	12,040	1,059	85	251	518	8,713	569	845

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-19. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	18,283	1,251	99	417	445	11,001	2,486	2,584
ENGINEERING	1,470	43	5	80	25	490	237	590
AEROSPACE	3	0	0	0	0	1	0	2
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	23	0	0	0	0	4	19	0
CHEMICAL	62	0	0	8	2	33	0	19
CIVIL	296	2	1	17	6	84	78	108
ELECTRICAL	240	9	1	5	5	47	85	88
ENGINEERING SCIENCE	25	0	0	4	0	12	5	4
INDUSTRIAL	241	15	1	16	3	104	6	96
MECHANICAL	140	2	0	10	6	44	22	56
METALLURGICAL/MATERIALS	25	0	0	1	0	16	0	8
MINING	22	0	0	0	0	17	0	5
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	6	0	0	0	0	2	0	4
ENGINEERING, N.E.C.	387	15	2	19	3	126	22	200
PHYSICAL SCIENCES	706	78	3	30	11	325	74	185
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	541	65	3	26	8	246	61	132
PHYSICS	125	11	0	2	2	54	8	48
PHYSICAL SCIENCES, N.E.C.	40	2	0	2	1	25	5	5
ENVIRONMENTAL SCIENCES	584	15	3	9	18	412	82	45
ATMOSPHERIC SCIENCES	8	0	1	0	0	6	0	1
GEOSCIENCES	236	3	0	2	15	180	26	10
OCEANOGRAPHY	42	0	0	0	1	39	0	2
ENVIRONMENTAL SCIENCES, N.E.C.	298	12	2	7	2	187	56	32
MATHEMATICAL/COMPUTER SCIENCES	1,869	110	13	106	30	823	235	552
COMPUTER SCIENCE	1,197	79	7	81	17	474	156	383
MATHEMATICS AND APPLIED MATHEMATICS	657	31	6	25	12	343	71	169
STATISTICS	15	0	0	0	1	6	8	0
LIFE SCIENCES	4,582	297	21	60	88	3,216	456	444
AGRICULTURAL SCIENCES	375	18	1	3	5	176	52	120
BIOLOGICAL SCIENCES	1,812	151	9	30	34	1,279	133	176
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	18	0	0	0	0	14	0	4
BIOLOGY	1,460	138	6	23	26	1,026	116	125
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	13	0	0	0	0	13	0	0
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	5	0	0	0	0	5	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	47	2	0	0	2	40	0	3
MICROBIOLOGY	24	0	0	0	0	11	7	6
NUTRITION	94	11	2	5	1	54	1	20
PATHOLOGY	72	0	1	2	2	51	8	8
PHARMACOLOGY	1	0	0	0	0	1	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	18	0	0	0	0	16	0	2
BIOSCIENCES, N.E.C.	60	0	0	0	3	48	1	8
HEALTH SCIENCES	2,395	128	11	27	49	1,761	271	148
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	25	0	0	0	0	25	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	14	0	0	0	0	12	0	2
NURSING	430	37	1	6	6	309	66	5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	13	0	0	0	0	6	1	6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	28	0	0	0	0	4	22	2
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	956	50	8	11	22	771	68	26
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	14	0	0	0	0	0	8
CLINICAL MEDICINE, N.E.C.	69	5	0	1	3	40	6	14
HEALTH RELATED, N.E.C.	838	22	2	9	18	594	108	85
PSYCHOLOGY	4,739	229	22	45	94	3,632	521	196
SOCIAL SCIENCES	4,333	479	32	87	179	2,103	881	572
AGRICULTURAL ECONOMICS	22	7	0	0	0	3	0	12
ANTHROPOLOGY	78	1	0	1	1	49	19	7
ECONOMICS (EXCEPT AGRICULTURAL)	397	54	4	7	12	78	47	195
GEOGRAPHY	166	8	1	5	1	120	15	16
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	12	0	0	0	1	6	4	1
POLITICAL SCIENCE	1,595	193	10	36	71	760	331	194
SOCIOLOGY	242	54	3	10	16	116	21	22
SOCIOLOGY/ANTHROPOLOGY	45	13	1	0	1	28	0	2
SOCIAL SCIENCES, N.E.C.	1,776	149	13	28	76	943	444	123

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-20. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	143,723	85,566	58,157	87,272	56,451
ENGINEERING	36,213	32,253	3,960	18,295	17,918
AEROSPACE	419	382	37	241	178
AGRICULTURAL	136	129	7	135	1
BIOMEDICAL	185	146	39	100	85
CHEMICAL	1,581	1,352	229	987	594
CIVIL	4,871	4,347	524	2,886	1,985
ELECTRICAL	10,484	9,751	733	4,813	5,671
ENGINEERING SCIENCE	922	766	156	545	377
INDUSTRIAL	7,707	6,454	1,253	2,029	5,678
MECHANICAL	4,204	3,917	287	2,331	1,873
METALLURGICAL/MATERIALS	646	534	112	302	344
MINING	76	71	5	68	8
NUCLEAR	259	246	13	203	56
PETROLEUM	110	101	9	36	74
ENGINEERING, N.E.C.	4,613	4,057	556	3,619	994
PHYSICAL SCIENCES	4,134	3,116	1,018	2,763	1,371
ASTRONOMY	42	35	7	38	4
CHEMISTRY	2,711	1,907	804	1,690	1,021
PHYSICS	1,226	1,086	140	880	346
PHYSICAL SCIENCES, N.E.C.	155	88	67	155	0
ENVIRONMENTAL SCIENCES	3,585	2,654	931	3,252	333
ATMOSPHERIC SCIENCES	121	107	14	114	7
GEOSCIENCES	2,071	1,569	502	1,857	214
OCEANOGRAPHY	498	365	133	461	37
ENVIRONMENTAL SCIENCES, N.E.C.	895	613	282	820	75
MATHEMATICAL/COMPUTER SCIENCES	16,971	11,632	5,339	9,605	7,366
COMPUTER SCIENCE	10,901	7,774	3,127	5,472	5,429
MATHEMATICS AND APPLIED MATHEMATICS	5,599	3,515	2,084	3,817	1,782
STATISTICS	471	343	128	316	155
LIFE SCIENCES	32,842	10,858	21,984	23,039	9,803
AGRICULTURAL SCIENCES	2,467	1,914	553	2,447	20
BIOLOGICAL SCIENCES	9,528	4,769	4,759	6,741	2,787
ANATOMY	144	93	51	85	59
BIOCHEMISTRY	279	160	119	159	120
BIOLOGY	4,456	2,415	2,041	2,993	1,463
BIOMETRY/EPIDEMIOLOGY	249	109	140	147	102
BIOPHYSICS	17	14	3	17	0
BOTANY	462	295	167	437	25
CELL BIOLOGY	26	17	9	11	15
ECOLOGY	111	75	36	86	25
ENTOMOLOGY/PARASITOLOGY	200	137	63	199	1
GENETICS	64	19	45	29	35
MICROBIOLOGY	622	308	314	466	156
NUTRITION	1,223	214	1,009	944	279
PATHOLOGY	619	283	336	391	228
PHARMACOLOGY	144	90	54	97	47
PHYSIOLOGY	253	165	88	195	58
ZOOLOGY	367	213	154	330	37
BIOSCIENCES, N.E.C.	292	162	130	155	137
HEALTH SCIENCES	20,847	4,175	16,672	13,851	6,996
ANESTHESIOLOGY	20	5	15	16	4
CANCER/ONCOLOGY	2	2	0	1	1
CARDIOLOGY	31	12	19	0	31
DENTISTRY	122	94	28	82	40
ENDOCRINOLOGY	3	3	0	3	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	1	0	1	0	1
NEUROLOGY	7	5	2	7	0
NURSING	9,763	347	9,416	6,671	3,092
OBSTETRICS/GYNECOLOGY	4	2	2	3	1
OPHTHALMOLOGY	3	1	2	3	0
OTORHINOLARYNGOLOGY	1	1	0	1	0
PEDIATRICS	10	3	7	2	8
PHARMACEUTICAL SCIENCES	842	579	263	266	576
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,706	1,142	1,564	1,381	1,325
PSYCHIATRY	57	25	32	49	8
PULMONARY DISEASE	2	0	2	2	0
RADIOLOGY	84	73	11	77	7
SPEECH PATHOLOGY/AUDIOLOGY	3,245	402	2,843	2,900	345
SURGERY	25	21	4	25	0
VETERINARY SCIENCES	93	58	35	90	3
CLINICAL MEDICINE, N.E.C.	427	161	266	253	174
HEALTH RELATED, N.E.C.	3,399	1,239	2,160	2,019	1,380
PSYCHOLOGY	14,322	5,724	8,598	7,739	6,583
SOCIAL SCIENCES	35,656	19,329	16,327	22,579	13,077
AGRICULTURAL ECONOMICS	277	215	62	273	4
ANTHROPOLOGY	1,843	774	1,069	1,409	434
ECONOMICS (EXCEPT AGRICULTURAL)	4,284	3,036	1,248	2,273	2,011
GEOGRAPHY	1,040	701	339	1,005	35
HISTORY AND PHILOSOPHY OF SCIENCE	33	18	15	26	7
LINGUISTICS	643	234	409	459	184
POLITICAL SCIENCE	15,932	9,479	6,453	9,355	6,577
SOCIOLOGY	2,572	1,157	1,415	1,769	803
SOCIOLOGY/ANTHROPOLOGY	418	188	230	222	196
SOCIAL SCIENCES, N.E.C.	8,614	3,527	5,087	5,788	2,826

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-21. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	109,738	66,965	42,773	64,562	45,176
ENGINEERING	31,356	27,879	3,477	15,388	15,968
AEROSPACE	414	377	37	241	173
AGRICULTURAL	136	129	7	135	1
BIOMEDICAL	156	120	36	85	71
CHEMICAL	1,406	1,199	207	876	530
CIVIL	4,222	3,751	471	2,352	1,870
ELECTRICAL	9,316	8,652	664	4,201	5,115
ENGINEERING SCIENCE	657	541	116	544	113
INDUSTRIAL	7,085	5,926	1,159	1,772	5,313
MECHANICAL	3,637	3,379	258	2,101	1,536
METALLURGICAL/MATERIALS	577	474	103	292	285
MINING	73	68	5	65	8
NUCLEAR	259	246	13	203	56
PETROLEUM	110	101	9	36	74
ENGINEERING, N.E.C.	3,308	2,916	392	2,485	823
PHYSICAL SCIENCES	3,153	2,438	715	2,049	1,104
ASTRONOMY	42	35	7	38	4
CHEMISTRY	2,027	1,445	582	1,241	786
PHYSICS	1,066	948	118	752	314
PHYSICAL SCIENCES, N.E.C.	18	10	8	18	0
ENVIRONMENTAL SCIENCES	2,722	2,011	711	2,434	288
ATMOSPHERIC SCIENCES	117	103	14	110	7
GEOSCIENCES	1,729	1,305	424	1,515	214
OCEANOGRAPHY	383	285	98	346	37
ENVIRONMENTAL SCIENCES, N.E.C.	493	318	175	463	30
MATHEMATICAL/COMPUTER SCIENCES	12,247	8,532	3,715	6,274	5,973
COMPUTER SCIENCE	8,003	5,747	2,256	3,784	4,219
MATHEMATICS AND APPLIED MATHEMATICS	3,901	2,533	1,368	2,213	1,688
STATISTICS	343	252	91	277	66
LIFE SCIENCES	25,250	8,209	17,041	17,645	7,605
AGRICULTURAL SCIENCES	2,119	1,620	499	2,100	19
BIOLOGICAL SCIENCES	6,773	3,423	3,350	4,651	2,122
ANATOMY	144	93	51	85	59
BIOCHEMISTRY	263	153	110	159	104
BIOLOGY	2,310	1,294	1,016	1,242	1,068
BIOMETRY/EPIDEMIOLOGY	249	109	140	147	102
BIOPHYSICS	17	14	3	17	0
BOTANY	451	292	159	434	17
CELL BIOLOGY	26	17	9	11	15
ECOLOGY	83	58	25	83	0
ENTOMOLOGY/PARASITOLOGY	200	137	63	199	1
GENETICS	61	19	42	29	32
MICROBIOLOGY	501	249	252	394	107
NUTRITION	1,061	206	855	847	214
PATHOLOGY	481	212	269	269	212
PHARMACOLOGY	134	87	47	97	37
PHYSIOLOGY	253	165	88	195	58
ZOOLOGY	353	206	147	330	23
BIOSCIENCES, N.E.C.	186	112	74	113	73
HEALTH SCIENCES	16,358	3,166	13,192	10,894	5,464
ANESTHESIOLOGY	20	5	15	16	4
CANCER/ONCOLOGY	2	2	0	1	1
CARDIOLOGY	0	0	0	0	0
DENTISTRY	122	94	28	82	40
ENDOCRINOLOGY	3	3	0	3	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	1	0	1	0	1
NEUROLOGY	7	5	2	7	0
NURSING	8,236	276	7,960	5,780	2,456
OBSTETRICS/GYNECOLOGY	4	2	2	3	1
OPHTHALMOLOGY	3	1	2	3	0
OTORHINOLARYNGOLOGY	1	1	0	1	0
PEDIATRICS	10	3	7	2	8
PHARMACEUTICAL SCIENCES	832	573	259	266	566
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,633	1,128	1,505	1,308	1,325
PSYCHIATRY	57	25	32	49	8
PULMONARY DISEASE	2	0	2	2	0
RADIOLOGY	84	73	11	77	7
SPEECH PATHOLOGY/AUDIOLOGY	2,282	312	1,970	2,022	260
SURGERY	25	21	4	25	0
VETERINARY SCIENCES	90	55	35	90	0
CLINICAL MEDICINE, N.E.C.	126	67	59	102	24
HEALTH RELATED, N.E.C.	1,818	520	1,298	1,055	763
PSYCHOLOGY	7,929	3,326	4,603	3,973	3,956
SOCIAL SCIENCES	27,081	14,570	12,511	16,799	10,282
AGRICULTURAL ECONOMICS	255	195	60	251	4
ANTHROPOLOGY	1,661	698	963	1,227	434
ECONOMICS (EXCEPT AGRICULTURAL)	3,593	2,579	1,014	1,902	1,691
GEOGRAPHY	738	496	242	704	34
HISTORY AND PHILOSOPHY OF SCIENCE	33	18	15	26	7
LINGUISTICS	526	214	312	342	184
POLITICAL SCIENCE	11,376	6,817	4,559	6,267	5,109
SOCIOLOGY	2,149	954	1,195	1,416	733
SOCIOLOGY/ANTHROPOLOGY	372	163	209	199	173
SOCIAL SCIENCES, N.E.C.	6,378	2,436	3,942	4,465	1,913

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-22. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	SEX		TYPE OF CONTROL	
		MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	33,985	18,601	15,384	22,710	11,275
ENGINEERING	4,857	4,374	483	2,907	1,950
AEROSPACE	5	5	0	0	5
AGRICULTURAL	0	0	0	0	0
BIOMEDICAL	29	26	3	15	14
CHEMICAL	175	153	22	111	64
CIVIL	649	596	53	534	115
ELECTRICAL	1,168	1,099	69	612	556
ENGINEERING SCIENCE	265	225	40	1	264
INDUSTRIAL	622	528	94	257	365
MECHANICAL	567	538	29	230	337
METALLURGICAL/MATERIALS	69	60	9	10	59
MINING	3	3	0	3	0
NUCLEAR	0	0	0	0	0
PETROLEUM	0	0	0	0	0
ENGINEERING, N.E.C.	1,305	1,141	164	1,134	171
PHYSICAL SCIENCES	981	678	303	714	267
ASTRONOMY	0	0	0	0	0
CHEMISTRY	684	462	222	449	235
PHYSICS	160	138	22	128	32
PHYSICAL SCIENCES, N.E.C.	137	78	59	137	0
ENVIRONMENTAL SCIENCES	863	643	220	818	45
ATMOSPHERIC SCIENCES	4	4	0	4	0
GEOSCIENCES	342	264	78	342	0
OCEANOGRAPHY	115	80	35	115	0
ENVIRONMENTAL SCIENCES, N.E.C.	402	295	107	357	45
MATHEMATICAL/COMPUTER SCIENCES	4,724	3,100	1,624	3,331	1,393
COMPUTER SCIENCE	2,898	2,027	871	1,688	1,210
MATHEMATICS AND APPLIED MATHEMATICS	1,698	982	716	1,604	94
STATISTICS	128	91	37	39	89
LIFE SCIENCES	7,592	2,649	4,943	5,394	2,198
AGRICULTURAL SCIENCES	348	294	54	347	1
BIOLOGICAL SCIENCES	2,755	1,346	1,409	2,090	665
ANATOMY	0	0	0	0	0
BIOCHEMISTRY	16	7	9	0	16
BIOLOGY	2,146	1,121	1,025	1,751	395
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0
BOTANY	11	3	8	3	8
CELL BIOLOGY	0	0	0	0	0
ECOLOGY	28	17	11	3	25
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0
GENETICS	3	0	3	0	3
MICROBIOLOGY	121	59	62	72	49
NUTRITION	162	8	154	97	65
PATHOLOGY	138	71	67	122	16
PHARMACOLOGY	10	3	7	0	10
PHYSIOLOGY	0	0	0	0	0
ZOOLOGY	14	7	7	0	14
BIOSCIENCES, N.E.C.	106	50	56	42	64
HEALTH SCIENCES	4,489	1,009	3,480	2,957	1,532
ANESTHESIOLOGY	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0
CARDIOLOGY	31	12	19	0	31
DENTISTRY	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0
NEUROLOGY	0	0	0	0	0
NURSING	1,527	71	1,456	891	636
OBSTETRICS/GYNECOLOGY	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0
PEDIATRICS	0	0	0	0	0
PHARMACEUTICAL SCIENCES	10	6	4	0	10
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	73	14	59	73	0
PSYCHIATRY	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0
RADIOLOGY	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	963	90	873	878	85
SURGERY	0	0	0	0	0
VETERINARY SCIENCES	3	3	0	0	3
CLINICAL MEDICINE, N.E.C.	301	94	207	151	150
HEALTH RELATED, N.E.C.	1,581	719	862	964	617
PSYCHOLOGY	6,393	2,398	3,995	3,766	2,627
SOCIAL SCIENCES	8,575	4,759	3,816	5,780	2,795
AGRICULTURAL ECONOMICS	22	20	2	22	0
ANTHROPOLOGY	182	76	106	182	0
ECONOMICS (EXCEPT AGRICULTURAL)	691	457	234	371	320
GEOGRAPHY	302	205	97	301	1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0
LINGUISTICS	117	20	97	117	0
POLITICAL SCIENCE	4,556	2,662	1,894	3,088	1,468
SOCIOLOGY	423	203	220	353	70
SOCIOLOGY/ANTHROPOLOGY	46	25	21	23	23
SOCIAL SCIENCES, N.E.C.	2,236	1,091	1,145	1,323	913

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-23. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	143,723	6,083	470	3,660	3,833	102,299	16,875	10,503
ENGINEERING	36,213	713	100	1,355	541	23,276	6,383	3,845
AEROSPACE	419	1	0	14	2	324	40	38
AGRICULTURAL	136	0	0	2	2	104	7	21
BIOMEDICAL	185	6	0	1	1	134	21	22
CHEMICAL	1,581	25	5	93	38	1,200	31	189
CIVIL	4,871	66	16	201	92	2,677	968	851
ELECTRICAL	10,484	159	24	447	174	6,007	2,483	1,190
ENGINEERING SCIENCE	922	28	0	24	7	575	225	63
INDUSTRIAL	7,707	270	21	181	124	5,715	1,024	372
MECHANICAL	4,204	42	11	156	44	2,785	606	560
METALLURGICAL/MATERIALS	646	10	1	32	4	480	49	70
MINING	76	0	0	0	0	59	8	9
NUCLEAR	259	2	3	6	4	223	3	18
PETROLEUM	110	3	0	8	5	61	0	33
ENGINEERING, N.E.C.	4,613	101	19	190	44	2,932	918	409
PHYSICAL SCIENCES	4,134	136	18	165	109	2,929	318	459
ASTRONOMY	42	1	0	1	1	37	1	1
CHEMISTRY	2,711	105	12	123	54	1,855	256	306
PHYSICS	1,226	25	5	36	48	928	57	127
PHYSICAL SCIENCES, N.E.C.	155	5	1	5	6	109	4	25
ENVIRONMENTAL SCIENCES	3,585	25	6	64	57	2,910	315	208
ATMOSPHERIC SCIENCES	121	0	0	1	1	101	6	12
GEOSCIENCES	2,071	8	0	19	15	1,690	215	124
OCEANOGRAPHY	498	8	3	22	34	400	0	31
ENVIRONMENTAL SCIENCES, N.E.C.	895	9	3	22	7	719	94	41
MATHEMATICAL/COMPUTER SCIENCES	16,971	504	39	717	259	11,811	1,831	1,810
COMPUTER SCIENCE	10,901	323	16	540	142	7,438	1,226	1,215
MATHEMATICS AND APPLIED MATHEMATICS	5,599	169	22	158	113	4,017	591	529
STATISTICS	471	12	1	19	3	356	14	66
LIFE SCIENCES	32,842	1,250	98	602	605	26,463	2,291	1,533
AGRICULTURAL SCIENCES	2,467	22	13	21	46	1,961	185	219
BIOLOGICAL SCIENCES	9,528	351	27	226	184	7,213	937	590
ANATOMY	144	3	0	5	1	129	2	4
BIOCHEMISTRY	279	4	0	17	12	197	12	37
BIOLOGY	4,456	212	18	95	112	3,415	416	188
BIOMETRY/EPIDEMIOLOGY	249	19	1	11	5	196	0	17
BIOPHYSICS	17	0	0	1	0	14	0	2
BOTANY	462	10	2	6	6	344	40	54
CELL BIOLOGY	26	0	0	2	0	23	1	0
ECOLOGY	111	0	0	0	2	100	5	4
ENTOMOLOGY/PARASITOLOGY	200	4	0	4	1	162	9	20
GENETICS	64	1	0	3	4	47	4	5
MICROBIOLOGY	622	7	1	17	7	393	143	54
NUTRITION	1,223	45	2	35	18	907	89	127
PATHOLOGY	619	20	2	6	3	453	99	36
PHARMACOLOGY	144	3	0	2	5	122	0	12
PHYSIOLOGY	253	9	1	7	1	213	16	6
ZOOLOGY	367	6	0	8	2	293	43	15
BIOSCIENCES, N.E.C.	292	8	0	7	5	205	58	9
HEALTH SCIENCES	20,847	877	58	355	375	17,289	1,169	724
ANESTHESIOLOGY	20	0	0	0	0	8	12	0
CANCER/ONCOLOGY	2	0	0	0	0	2	0	0
CARDIOLOGY	31	0	0	0	0	31	0	0
DENTISTRY	122	4	0	6	5	91	0	16
ENDOCRINOLOGY	3	0	0	0	0	3	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	1	0	0	0	0	1	0	0
NEUROLOGY	7	0	0	0	0	4	3	0
NURSING	9,763	357	24	103	120	8,595	420	144
OBSTETRICS/GYNECOLOGY	4	0	0	0	0	4	0	0
OPHTHALMOLOGY	3	0	0	0	0	0	3	0
OTORHINOLARYNGOLOGY	1	0	0	0	0	1	0	0
PEDIATRICS	10	1	0	0	0	9	0	0
PHARMACEUTICAL SCIENCES	842	22	6	69	2	556	82	105
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,706	123	8	80	97	2,129	77	192
PSYCHIATRY	57	4	0	1	0	47	0	5
PULMONARY DISEASE	2	0	0	0	0	0	2	0
RADIOLOGY	84	2	0	3	0	77	0	2
SPEECH PATHOLOGY/AUDIOLOGY	3,245	142	6	25	45	2,535	421	71
SURGERY	25	0	0	0	0	22	0	3
VETERINARY SCIENCES	93	4	0	1	1	70	3	14
CLINICAL MEDICINE, N.E.C.	427	43	1	18	7	315	13	30
HEALTH RELATED, N.E.C.	3,399	175	13	49	98	2,789	133	142
PSYCHOLOGY	14,322	625	61	121	449	11,154	1,595	317
SOCIAL SCIENCES	35,656	2,830	148	636	1,813	23,756	4,142	2,331
AGRICULTURAL ECONOMICS	277	16	5	6	5	180	4	61
ANTHROPOLOGY	1,843	18	16	8	22	1,289	314	176
ECONOMICS (EXCEPT AGRICULTURAL)	4,284	180	21	107	120	2,867	421	568
GEOGRAPHY	1,040	15	1	15	11	863	42	93
HISTORY AND PHILOSOPHY OF SCIENCE	33	0	0	0	0	32	0	1
LINGUISTICS	643	6	0	18	31	401	105	82
POLITICAL SCIENCE	15,932	1,535	46	341	1,246	9,795	2,237	732
SOCIOLOGY	2,572	223	15	40	122	1,716	204	252
SOCIOLOGY/ANTHROPOLOGY	418	27	3	3	14	313	21	37
SOCIAL SCIENCES, N.E.C.	8,614	810	41	98	242	6,300	794	329

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-24. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	109,738	4,281	327	2,788	2,986	79,532	11,262	8,562
ENGINEERING	31,356	599	82	1,112	466	20,462	5,327	3,308
AEROSPACE	414	1	0	14	2	320	40	37
AGRICULTURAL	136	0	0	2	2	104	7	21
BIOMEDICAL	156	6	0	1	0	125	4	20
CHEMICAL	1,406	22	4	81	30	1,056	31	182
CIVIL	4,222	57	13	169	76	2,477	709	721
ELECTRICAL	9,316	137	21	384	153	5,377	2,109	1,135
ENGINEERING SCIENCE	657	18	0	18	5	350	206	60
INDUSTRIAL	7,085	228	17	163	119	5,225	980	353
MECHANICAL	3,637	38	11	137	38	2,509	432	472
METALLURGICAL/MATERIALS	577	7	0	32	3	429	41	65
MINING	73	0	0	0	0	56	8	9
NUCLEAR	259	2	3	6	4	223	3	18
PETROLEUM	110	3	0	8	5	61	0	33
ENGINEERING, N.E.C.	3,308	80	13	97	29	2,150	757	182
PHYSICAL SCIENCES	3,153	95	12	126	86	2,306	184	344
ASTRONOMY	42	1	0	1	1	37	1	1
CHEMISTRY	2,027	75	7	94	41	1,429	154	227
PHYSICS	1,066	19	4	31	44	828	28	112
PHYSICAL SCIENCES, N.E.C.	18	0	1	0	0	12	1	4
ENVIRONMENTAL SCIENCES	2,722	12	3	40	42	2,282	162	181
ATMOSPHERIC SCIENCES	117	0	0	1	1	97	6	12
GEOSCIENCES	1,729	6	0	13	6	1,478	113	113
OCEANOGRAPHY	383	4	2	22	34	291	0	30
ENVIRONMENTAL SCIENCES, N.E.C.	493	2	1	4	1	416	43	26
MATHEMATICAL/COMPUTER SCIENCES	12,247	348	24	491	171	8,674	1,190	1,349
COMPUTER SCIENCE	8,003	229	12	384	90	5,625	769	894
MATHEMATICS AND APPLIED MATHEMATICS	3,901	110	12	96	79	2,800	414	390
STATISTICS	343	9	0	11	2	249	7	65
LIFE SCIENCES	25,250	866	67	474	438	20,839	1,314	1,252
AGRICULTURAL SCIENCES	2,119	18	11	19	38	1,673	166	194
BIOLOGICAL SCIENCES	6,773	200	13	163	116	5,243	568	470
ANATOMY	144	3	0	5	1	129	2	4
BIOCHEMISTRY	263	4	0	17	12	184	12	34
BIOLOGY	2,310	86	8	43	58	1,856	148	111
BIOMETRY/EPIDEMIOLOGY	249	19	1	11	5	196	0	17
BIOPHYSICS	17	0	0	1	0	14	0	2
BOTANY	451	10	1	6	6	336	39	53
CELL BIOLOGY	26	0	0	2	0	23	1	0
ECOLOGY	83	0	0	0	1	73	5	4
ENTOMOLOGY/PARASITOLOGY	200	4	0	4	1	162	9	20
GENETICS	61	0	0	3	3	46	4	5
MICROBIOLOGY	501	3	0	9	3	351	100	35
NUTRITION	1,061	31	2	33	13	778	83	121
PATHOLOGY	481	17	0	6	2	373	52	31
PHARMACOLOGY	134	3	0	2	5	119	0	5
PHYSIOLOGY	253	9	1	7	1	213	16	6
ZOOLOGY	353	6	0	8	2	279	43	15
BIOSCIENCES, N.E.C.	186	5	0	6	3	111	54	7
HEALTH SCIENCES	16,358	648	43	292	284	13,923	580	588
ANESTHESIOLOGY	20	0	0	0	0	8	12	0
CANCER/ONCOLOGY	2	0	0	0	0	2	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	122	4	0	6	5	91	0	16
ENDOCRINOLOGY	3	0	0	0	0	3	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	1	0	0	0	0	1	0	0
NEUROLOGY	7	0	0	0	0	4	3	0
NURSING	8,236	305	21	85	105	7,373	207	140
OBSTETRICS/GYNECOLOGY	4	0	0	0	0	4	0	0
OPHTHALMOLOGY	3	0	0	0	0	0	3	0
OTORHINOLARYNGOLOGY	1	0	0	0	0	1	0	0
PEDIATRICS	10	1	0	0	0	9	0	0
PHARMACEUTICAL SCIENCES	832	22	6	69	2	549	82	102
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,633	121	7	79	97	2,067	73	189
PSYCHIATRY	57	4	0	1	0	47	0	5
PULMONARY DISEASE	2	0	0	0	0	0	2	0
RADIOLOGY	84	2	0	3	0	77	0	2
SPEECH PATHOLOGY/AUDIOLOGY	2,282	96	2	13	31	1,964	125	51
SURGERY	25	0	0	0	0	22	0	3
VETERINARY SCIENCES	90	3	0	1	1	70	3	12
CLINICAL MEDICINE, N.E.C.	126	6	0	2	1	105	0	12
HEALTH RELATED, N.E.C.	1,818	84	7	33	42	1,526	70	56
PSYCHOLOGY	7,929	328	30	77	311	6,358	606	219
SOCIAL SCIENCES	27,081	2,033	109	468	1,472	18,611	2,479	1,909
AGRICULTURAL ECONOMICS	255	7	5	5	5	180	4	49
ANTHROPOLOGY	1,661	18	14	8	17	1,191	250	163
ECONOMICS (EXCEPT AGRICULTURAL)	3,593	130	16	94	101	2,421	337	494
GEOGRAPHY	738	7	1	7	8	621	18	76
HISTORY AND PHILOSOPHY OF SCIENCE	33	0	0	0	0	32	0	1
LINGUISTICS	526	4	0	16	25	351	59	71
POLITICAL SCIENCE	11,376	1,116	34	239	1,014	7,092	1,293	588
SOCIOLOGY	2,149	173	11	34	98	1,507	93	233
SOCIOLOGY/ANTHROPOLOGY	372	24	2	3	13	274	21	35
SOCIAL SCIENCES, N.E.C.	6,378	554	26	62	191	4,942	404	199

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-25. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1982

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	33,985	1,802	143	872	847	22,767	5,613	1,941
ENGINEERING	4,857	114	18	243	75	2,814	1,056	537
AEROSPACE	5	0	0	0	0	4	0	1
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	29	0	0	0	1	9	17	2
CHEMICAL	175	3	1	12	8	144	0	7
CIVIL	649	9	3	32	16	200	259	130
ELECTRICAL	1,168	22	3	63	21	630	374	55
ENGINEERING SCIENCE	265	10	0	6	2	225	19	3
INDUSTRIAL	622	42	4	18	5	490	44	19
MECHANICAL	567	4	0	19	6	276	174	88
METALLURGICAL/MATERIALS	69	3	1	0	1	51	8	5
MINING	3	0	0	0	0	3	0	0
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	1,305	21	6	93	15	782	161	227
PHYSICAL SCIENCES	981	41	6	39	23	623	134	115
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	684	30	5	29	13	426	102	79
PHYSICS	160	6	1	5	4	100	29	15
PHYSICAL SCIENCES, N.E.C.	137	5	0	5	6	97	3	21
ENVIRONMENTAL SCIENCES	863	13	3	24	15	628	153	27
ATMOSPHERIC SCIENCES	4	0	0	0	0	4	0	0
GEOSCIENCES	342	2	0	6	9	212	102	11
OCEANOGRAPHY	115	4	1	0	0	109	0	1
ENVIRONMENTAL SCIENCES, N.E.C.	402	7	2	18	6	303	51	15
MATHEMATICAL/COMPUTER SCIENCES	4,724	156	15	226	88	3,137	641	461
COMPUTER SCIENCE	2,898	94	4	156	53	1,813	457	321
MATHEMATICS AND APPLIED MATHEMATICS	1,698	59	10	62	34	1,217	177	139
STATISTICS	128	3	1	8	1	107	7	1
LIFE SCIENCES	7,592	384	31	128	167	5,624	977	281
AGRICULTURAL SCIENCES	348	4	2	2	8	288	19	25
BIOLOGICAL SCIENCES	2,755	151	14	63	68	1,970	369	120
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	16	0	0	0	0	13	0	3
BIOLOGY	2,146	126	10	52	54	1,559	268	77
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	11	0	1	0	0	8	1	1
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	28	0	0	0	1	27	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	3	1	0	0	1	1	0	0
MICROBIOLOGY	121	4	1	8	4	42	43	19
NUTRITION	162	14	0	2	5	129	6	6
PATHOLOGY	138	3	2	0	1	80	47	5
PHARMACOLOGY	10	0	0	0	0	3	0	7
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	14	0	0	0	0	14	0	0
BIOSCIENCES, N.E.C.	106	3	0	1	2	94	4	2
HEALTH SCIENCES	4,489	229	15	63	91	3,366	589	136
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	31	0	0	0	0	31	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0
NURSING	1,527	52	3	18	15	1,222	213	4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	10	0	0	0	0	7	0	3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	73	2	1	1	0	62	4	3
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	963	46	4	12	14	571	296	20
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	1	0	0	0	0	0	2
CLINICAL MEDICINE, N.E.C.	301	37	1	16	6	210	13	18
HEALTH RELATED, N.E.C.	1,581	91	6	16	56	1,263	63	86
PSYCHOLOGY	6,393	297	31	44	138	4,796	989	98
SOCIAL SCIENCES	8,575	797	39	168	341	5,145	1,663	422
AGRICULTURAL ECONOMICS	22	9	0	1	0	0	0	12
ANTHROPOLOGY	182	0	2	0	5	98	64	13
ECONOMICS (EXCEPT AGRICULTURAL)	691	50	5	13	19	446	84	74
GEOGRAPHY	302	8	0	8	3	242	24	17
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	117	2	0	2	6	50	46	11
POLITICAL SCIENCE	4,556	419	12	102	232	2,703	944	144
SOCIOLOGY	423	50	4	6	24	209	111	19
SOCIOLOGY/ANTHROPOLOGY	46	3	1	0	1	29	0	2
SOCIAL SCIENCES, N.E.C.	2,236	256	15	36	51	1,358	390	130

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-26. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1982

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	3,489	1,693	1,796	1,986	1,503	1,045	2,444
ENGINEERING	311	137	174	271	40	55	256
AEROSPACE	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0
CIVIL	44	15	29	32	12	0	44
ELECTRICAL	64	39	25	61	3	25	39
ENGINEERING SCIENCE	0	0	0	0	0	0	0
INDUSTRIAL	52	8	44	37	15	0	52
MECHANICAL	30	0	30	29	1	30	0
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	121	75	46	112	9	0	121
PHYSICAL SCIENCES	288	115	173	182	106	135	153
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	226	91	135	135	91	111	115
PHYSICS	58	20	38	46	12	24	34
PHYSICAL SCIENCES, N.E.C.	4	4	0	1	3	0	4
ENVIRONMENTAL SCIENCES	31	20	11	19	12	0	31
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0
GEOSCIENCES	13	2	11	7	6	0	13
OCEANOGRAPHY	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	18	0	12	6	0	18
MATHEMATICAL/COMPUTER SCIENCES	405	325	80	236	169	17	388
COMPUTER SCIENCE	188	188	0	121	67	0	188
MATHEMATICS AND APPLIED MATHEMATICS	217	137	80	115	102	17	200
STATISTICS	0	0	0	0	0	0	0
LIFE SCIENCES	935	380	555	458	477	319	616
AGRICULTURAL SCIENCES	103	58	45	88	15	0	103
BIOLOGICAL SCIENCES	635	265	370	332	303	288	347
ANATOMY	10	0	10	5	5	10	0
BIOCHEMISTRY	22	0	22	11	11	22	0
BIOLOGY	375	229	146	198	177	109	266
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	45	0	45	10	35	0	45
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	25	0	25	6	19	25	0
MICROBIOLOGY	24	0	24	11	13	24	0
NUTRITION	36	36	0	25	11	0	36
PATHOLOGY	0	0	0	0	0	0	0
PHARMACOLOGY	35	0	35	21	14	35	0
PHYSIOLOGY	14	0	14	10	4	14	0
ZOOLOGY	41	0	41	31	10	41	0
BIOSCIENCES, N.E.C.	8	0	8	4	4	8	0
HEALTH SCIENCES	197	57	140	38	159	31	166
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0
NURSING	63	0	63	0	63	0	63
OBSTETRICS/GYNECOLOGY	3	0	3	1	2	3	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	12	12	0	8	4	0	12
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	8	0	8	3	5	0	8
PSYCHIATRY	4	0	4	2	2	4	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	82	45	37	8	74	24	58
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	25	0	25	16	9	0	25
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0
PSYCHOLOGY	248	171	77	102	146	69	179
SOCIAL SCIENCES	1,271	545	726	718	553	450	821
AGRICULTURAL ECONOMICS	39	39	0	33	6	0	39
ANTHROPOLOGY	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	284	107	177	195	89	139	145
GEOGRAPHY	9	9	0	7	2	0	9
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	0	0	0	0
POLITICAL SCIENCE	286	131	155	164	122	88	198
SOCIOLOGY	232	82	150	116	116	150	82
SOCIOLOGY/ANTHROPOLOGY	105	0	105	41	64	73	32
SOCIAL SCIENCES, N.E.C.	316	177	139	162	154	0	316

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-27. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1982

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	1,693	951	742	1,796	1,427	369
ENGINEERING	137	77	60	174	141	33
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	15	11	4	29	20	9
ELECTRICAL	39	32	7	25	25	0
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	8	8	0	44	26	18
MECHANICAL	0	0	0	30	26	4
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	75	26	49	46	44	2
PHYSICAL SCIENCES	115	95	20	173	161	12
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	91	78	13	135	127	8
PHYSICS	20	16	4	38	34	4
PHYSICAL SCIENCES, N.E.C.	4	1	3	0	0	0
ENVIRONMENTAL SCIENCES	20	18	2	11	11	0
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	2	0	2	11	11	0
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	18	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	325	186	139	80	53	27
COMPUTER SCIENCE	188	127	61	0	0	0
MATHEMATICS AND APPLIED MATHEMATICS	137	59	78	80	53	27
STATISTICS	0	0	0	0	0	0
LIFE SCIENCES	380	219	161	555	465	90
AGRICULTURAL SCIENCES	58	17	41	45	44	1
BIOLOGICAL SCIENCES	265	173	92	370	315	55
ANATOMY	0	0	0	10	10	0
BIOCHEMISTRY	0	0	0	22	22	0
BIOLOGY	229	145	84	146	108	38
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	0	0	0	45	33	12
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	0	0	0	25	25	0
MICROBIOLOGY	0	0	0	24	24	0
NUTRITION	36	28	8	0	0	0
PATHOLOGY	0	0	0	0	0	0
PHARMACOLOGY	0	0	0	35	32	3
PHYSIOLOGY	0	0	0	14	14	0
ZOOLOGY	0	0	0	41	39	2
BIOSCIENCES, N.E.C.	0	0	0	8	8	0
HEALTH SCIENCES	57	29	28	140	106	34
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0
NURSING	0	0	0	63	40	23
OBSTETRICS/GYNECOLOGY	0	0	0	3	3	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	12	12	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	8	6	2
PSYCHIATRY	0	0	0	4	4	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	45	17	28	37	31	6
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	25	22	3
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0
PSYCHOLOGY	171	96	75	77	38	39
SOCIAL SCIENCES	545	260	285	726	558	168
AGRICULTURAL ECONOMICS	39	19	20	0	0	0
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	107	76	31	177	158	19
GEOGRAPHY	9	1	8	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	0	0	0	0	0	0
POLITICAL SCIENCE	131	45	86	155	117	38
SOCIOLOGY	82	50	32	150	91	59
SOCIOLOGY/ANTHROPOLOGY	0	0	0	105	74	31
SOCIAL SCIENCES, N.E.C.	177	69	108	139	118	21

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-28. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1982

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	2,378	791	1,587	1,447	931	1,405	973	951	1,427
ENGINEERING	218	109	109	75	143	192	26	77	141
AEROSPACE	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0
CIVIL	31	20	11	11	20	24	7	11	20
ELECTRICAL	57	8	49	33	24	54	3	32	25
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0	0
INDUSTRIAL	34	18	16	16	18	25	9	8	26
MECHANICAL	26	13	13	2	24	25	1	0	26
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	70	50	20	13	57	64	6	26	44
PHYSICAL SCIENCES	256	86	170	153	103	161	95	95	161
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	205	70	135	129	76	123	82	78	127
PHYSICS	50	15	35	23	27	38	12	16	34
PHYSICAL SCIENCES, N.E.C.	1	1	0	1	0	0	1	1	0
ENVIRONMENTAL SCIENCES	29	19	10	14	15	18	11	18	11
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	11	11	0	4	7	6	5	0	11
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	8	10	10	8	12	6	18	0
MATHEMATICAL/COMPUTER SCIENCES	239	82	157	124	115	151	88	186	53
COMPUTER SCIENCE	127	38	89	74	53	85	42	127	0
MATHEMATICS AND APPLIED MATHEMATICS	112	44	68	50	62	66	46	59	53
STATISTICS	0	0	0	0	0	0	0	0	0
LIFE SCIENCES	684	201	483	473	211	343	341	219	465
AGRICULTURAL SCIENCES	61	21	40	13	48	51	10	17	44
BIOLOGICAL SCIENCES	488	131	357	346	142	261	227	173	315
ANATOMY	10	3	7	10	0	5	5	0	10
BIOCHEMISTRY	22	5	17	12	10	11	11	0	22
BIOLOGY	253	79	174	210	43	136	117	145	108
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	33	14	19	10	23	5	28	0	33
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	25	4	21	19	6	6	19	0	25
MICROBIOLOGY	24	2	22	16	8	11	13	0	24
NUTRITION	28	5	23	15	13	24	4	28	0
PATHOLOGY	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	32	6	26	15	17	20	12	0	32
PHYSIOLOGY	14	5	9	12	2	10	4	0	14
ZOOLOGY	39	6	33	19	20	29	10	0	39
BIOSCIENCES, N.E.C.	8	2	6	8	0	4	4	0	8
HEALTH SCIENCES	135	49	86	114	21	31	104	29	106
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	40	6	34	40	0	0	40	0	40
OBSTETRICS/GYNECOLOGY	3	0	3	1	2	1	2	0	3
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	12	6	6	6	6	8	4	12	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6	2	4	3	3	2	4	0	6
PSYCHIATRY	4	0	4	4	0	2	2	0	4
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	48	29	19	46	2	5	43	17	31
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	6	16	14	8	13	9	0	22
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0	0
PSYCHOLOGY	134	46	88	123	11	48	86	96	38
SOCIAL SCIENCES	818	248	570	485	333	492	326	260	558
AGRICULTURAL ECONOMICS	19	14	5	7	12	15	4	19	0
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	234	62	172	70	164	162	72	76	158
GEOGRAPHY	1	0	1	1	0	0	1	1	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	0	0	0	0	0	0
POLITICAL SCIENCE	162	34	128	122	40	116	46	45	117
SOCIOLOGY	141	32	109	80	61	90	51	50	91
SOCIOLOGY/ANTHROPOLOGY	74	23	51	48	26	27	47	0	74
SOCIAL SCIENCES, N.E.C.	187	83	104	157	30	82	105	69	118

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-29. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY SEX, SOURCE OF MAJOR SUPPORT, AND AREA: 1982

SEX AND SOURCE OF MAJOR SUPPORT	TOTAL	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL/-COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	2,378	218	256	29	239	684	134	818
FEDERAL, TOTAL	607	36	94	7	47	304	5	114
DEPT OF DEFENSE	20	12	7	0	1	0	0	0
DEPT OF HHS, TOTAL	232	3	33	0	0	166	0	30
NIH	191	0	33	0	0	136	0	22
OTHER HHS	41	3	0	0	0	30	0	8
NSF	72	5	17	0	6	33	3	8
ALL OTHER FEDERAL	283	16	37	7	40	105	2	76
INSTITUTIONAL SUPPORT	659	118	112	11	50	154	42	172
OTHER OUTSIDE SUPPORT, TOTAL	144	12	27	0	6	60	4	35
ALL OTHER U.S.	108	10	21	0	4	44	4	25
FOREIGN	36	2	6	0	2	16	0	10
SELF-SUPPORT	968	52	23	11	136	166	83	497
MEN:								
TOTAL, ALL SOURCES	1,405	192	161	18	151	343	48	492
FEDERAL, TOTAL	310	34	59	7	28	134	1	47
DEPT OF DEFENSE	18	12	2	0	1	0	0	0
DEPT OF HHS, TOTAL	87	2	13	0	0	66	0	6
NIH	81	0	13	0	0	66	0	2
OTHER HHS	6	2	0	0	0	0	0	4
NSF	37	5	13	0	3	10	1	5
ALL OTHER FEDERAL	168	15	28	7	24	58	0	36
INSTITUTIONAL SUPPORT	400	112	71	5	31	79	11	91
OTHER OUTSIDE SUPPORT, TOTAL	103	9	20	0	2	49	1	22
ALL OTHER U.S.	73	7	15	0	0	36	1	14
FOREIGN	30	2	5	0	2	13	0	8
SELF-SUPPORT	592	37	11	6	90	81	35	332
WOMEN:								
TOTAL, ALL SOURCES	973	26	95	11	88	341	86	326
FEDERAL, TOTAL	297	2	35	0	19	170	4	67
DEPT OF DEFENSE	2	0	2	0	0	0	0	0
DEPT OF HHS, TOTAL	145	1	20	0	0	100	0	24
NIH	110	0	20	0	0	70	0	20
OTHER HHS	35	1	0	0	0	30	0	4
NSF	35	0	4	0	3	23	2	3
ALL OTHER FEDERAL	115	1	9	0	16	47	2	40
INSTITUTIONAL SUPPORT	259	6	41	6	19	75	31	81
OTHER OUTSIDE SUPPORT, TOTAL	41	3	7	0	4	11	3	13
ALL OTHER U.S.	35	3	6	0	4	8	3	11
FOREIGN	6	0	1	0	0	3	0	2
SELF-SUPPORT	376	15	12	5	46	85	48	165

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-30. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD AND TYPE OF MAJOR SUPPORT: 1982

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	2,378	281	218	331	386	1,162
ENGINEERING	218	18	4	44	86	66
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	31	1	0	3	10	17
ELECTRICAL	57	5	0	25	12	15
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	34	8	0	5	7	14
MECHANICAL	26	0	1	5	4	16
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	70	4	3	6	53	4
PHYSICAL SCIENCES	256	26	24	51	111	44
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	205	23	22	40	94	26
PHYSICS	50	3	2	11	17	17
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	0	1
ENVIRONMENTAL SCIENCES	29	0	10	7	1	11
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	11	0	10	0	0	1
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	0	0	7	1	10
MATHEMATICAL/COMPUTER SCIENCES	239	16	5	6	31	181
COMPUTER SCIENCE	127	7	1	5	6	108
MATHEMATICS AND APPLIED MATHEMATICS	112	9	4	1	25	73
STATISTICS	0	0	0	0	0	0
LIFE SCIENCES	684	70	123	140	120	231
AGRICULTURAL SCIENCES	61	1	0	11	3	46
BIOLOGICAL SCIENCES	488	54	80	110	99	145
ANATOMY	10	0	7	0	2	1
BIOCHEMISTRY	22	2	9	0	8	3
BIOLOGY	253	24	19	79	43	88
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	33	0	0	3	16	14
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	25	5	0	8	3	9
MICROBIOLOGY	24	3	11	0	6	4
NUTRITION	28	0	0	20	0	8
PATHOLOGY	0	0	0	0	0	0
PHARMACOLOGY	32	0	11	0	5	16
PHYSIOLOGY	14	0	9	0	3	2
ZOOLOGY	39	20	6	0	13	0
BIOSCIENCES, N.E.C.	8	0	8	0	0	0
HEALTH SCIENCES	135	15	43	29	18	40
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0
NURSING	40	0	15	0	5	16
OBSTETRICS/GYNECOLOGY	3	0	0	3	0	0
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	12	0	0	1	8	3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	6	0	0	0	0	6
PSYCHIATRY	4	2	2	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	48	9	17	10	5	7
SURGERY	0	0	0	0	0	0
VETERINARY SCIENCES	22	2	5	5	0	8
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	0	0	0
PSYCHOLOGY	134	15	2	8	21	88
SOCIAL SCIENCES	818	136	50	75	16	541
AGRICULTURAL ECONOMICS	19	0	2	12	0	5
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	234	30	9	4	3	188
GEOGRAPHY	1	0	0	0	0	1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	0	0	0	0	0	0
POLITICAL SCIENCE	162	33	2	15	0	112
SOCIOLOGY	141	9	4	23	9	96
SOCIOLOGY/ANTHROPOLOGY	74	22	0	8	3	41
SOCIAL SCIENCES, N.E.C.	187	42	33	13	1	98

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-31. — SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1982

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	19,772	14,063	2,214	2,466	9,383	5,709	7,340
ENGINEERING	983	675	41	28	606	308	659
AEROSPACE	25	19	0	0	19	6	19
AGRICULTURAL	6	2	0	0	2	4	3
BIOMEDICAL	30	25	0	12	13	5	6
CHEMICAL	175	100	12	0	88	75	133
CIVIL	108	66	0	6	60	42	70
ELECTRICAL	178	120	6	0	114	58	96
ENGINEERING SCIENCE	77	66	9	0	57	11	41
INDUSTRIAL	9	3	0	0	3	6	5
MECHANICAL	131	95	3	0	92	36	100
METALLURGICAL/MATERIALS	168	123	6	4	113	45	138
MINING	10	1	1	0	0	9	8
NUCLEAR	18	15	0	0	15	3	8
PETROLEUM	4	3	0	0	3	1	2
ENGINEERING, N.E.C.	44	37	4	6	27	7	30
PHYSICAL SCIENCES	4,297	3,609	232	37	3,340	688	2,374
ASTRONOMY	148	135	14	0	121	13	33
CHEMISTRY	2,819	2,314	191	33	2,090	505	1,667
PHYSICS	1,328	1,158	27	4	1,127	170	674
PHYSICAL SCIENCES, N.E.C.	2	2	0	0	2	0	0
ENVIRONMENTAL SCIENCES	339	255	11	1	243	84	122
ATMOSPHERIC SCIENCES	33	28	1	0	27	5	18
GEOSCIENCES	218	163	3	0	160	55	84
OCEANOGRAPHY	79	58	7	1	50	21	18
ENVIRONMENTAL SCIENCES, N.E.C.	9	6	0	0	6	3	2
MATHEMATICAL/COMPUTER SCIENCES	241	71	24	8	39	170	138
COMPUTER SCIENCE	58	32	9	4	19	26	13
MATHEMATICS AND APPLIED MATHEMATICS	169	32	14	2	16	137	118
STATISTICS	14	7	1	2	4	7	7
LIFE SCIENCES	13,101	8,920	1,770	2,232	4,918	4,181	3,881
AGRICULTURAL SCIENCES	283	168	1	7	160	115	118
BIOLOGICAL SCIENCES	7,784	5,838	1,103	949	3,786	1,946	2,409
ANATOMY	280	199	51	34	114	81	56
BIOCHEMISTRY	1,645	1,280	232	96	952	365	619
BIOLOGY	961	725	143	45	537	236	282
BIOMETRY/EPIDEMIOLOGY	53	41	6	20	15	12	14
BIOPHYSICS	131	117	6	18	93	14	52
BOTANY	298	213	2	0	211	85	96
CELL BIOLOGY	487	373	112	45	216	114	149
ECOLOGY	28	22	0	0	22	6	2
ENTOMOLOGY/PARASITOLOGY	119	88	3	2	83	31	30
GENETICS	311	231	46	53	132	80	80
MICROBIOLOGY	1,043	787	117	186	484	256	313
NUTRITION	138	86	11	18	57	52	37
PATHOLOGY	544	353	75	144	134	191	162
PHARMACOLOGY	796	588	126	124	338	208	303
PHYSIOLOGY	674	525	131	120	274	149	169
ZOOLOGY	223	174	29	33	112	49	34
BIOSCIENCES, N.E.C.	53	36	13	11	12	17	11
HEALTH SCIENCES	5,034	2,914	666	1,27[illegible]	972	2,120	1,354
ANESTHESIOLOGY	72	34	10	15	9	38	26
CANCER/ONCOLOGY	98	83	8	40	35	15	34
CARDIOLOGY	384	207	49	122	36	177	90
DENTISTRY	251	54	21	13	20	197	51
ENDOCRINOLOGY	142	101	17	45	39	41	51
GASTROENTEROLOGY	124	83	23	40	20	41	25
HEMATOLOGY	153	130	18	79	33	23	27
NEUROLOGY	323	220	70	68	82	103	77
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	105	51	20	9	22	54	48
OPHTHALMOLOGY	151	86	21	31	34	65	42
OTORHINOLARYNGOLOGY	35	29	12	3	14	6	16
PEDIATRICS	551	279	81	115	83	272	108
PHARMACEUTICAL SCIENCES	238	159	5	5	148	79	151
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	152	86	21	52	13	66	23
PSYCHIATRY	292	209	44	151	14	83	41
PULMONARY DISEASE	143	75	33	35	7	68	24
RADIOLOGY	185	116	18	51	47	69	71
SPEECH PATHOLOGY/AUDIOLOGY	7	7	3	1	3	0	1
SURGERY	340	150	38	42	70	190	144
VETERINARY SCIENCES	51	24	3	12	9	27	8
CLINICAL MEDICINE, N.E.C.	1,132	662	144	328	190	470	274
HEALTH RELATED, N.E.C.	105	69	6	19	44	36	20
PSYCHOLOGY	523	393	99	107	187	130	65
SOCIAL SCIENCES	288	140	37	53	50	148	101
AGRICULTURAL ECONOMICS	10	3	0	0	3	7	6
ANTHROPOLOGY	35	22	3	13	6	13	3
ECONOMICS (EXCEPT AGRICULTURAL)	13	8	3	2	3	5	9
GEOGRAPHY	5	3	2	0	1	2	4
HISTORY AND PHILOSOPHY OF SCIENCE	14	5	4	0	1	9	6
LINGUISTICS	47	9	0	0	9	38	26
POLITICAL SCIENCE	44	15	9	1	5	29	18
SOCIOLOGY	89	67	16	37	14	22	17
SOCIOLOGY/ANTHROPOLOGY	2	1	0	0	1	1	1
SOCIAL SCIENCES, N.E.C.	29	7	0	0	7	22	11

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-32. -- SCIENCE/ENGINEERING POSTDOCTORATES IN PUBLIC GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1982

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	11,049	8,103	1,113	1,180	5,810	2,946	4,271
ENGINEERING	532	365	23	23	319	167	358
AEROSPACE	10	5	0	0	5	5	9
AGRICULTURAL	2	0	0	0	0	2	2
BIOMEDICAL	19	18	0	7	11	1	2
CHEMICAL	117	66	8	0	58	51	94
CIVIL	70	41	0	6	35	29	43
ELECTRICAL	84	61	5	0	56	23	49
ENGINEERING SCIENCE	10	7	0	0	7	3	5
INDUSTRIAL	9	3	0	0	3	6	5
MECHANICAL	75	58	2	0	56	17	56
METALLURGICAL/MATERIALS	86	62	4	4	54	24	64
MINING	1	1	1	0	0	0	0
NUCLEAR	17	14	0	0	14	3	8
PETROLEUM	1	1	0	0	1	0	0
ENGINEERING, N.E.C.	31	28	3	6	19	3	21
PHYSICAL SCIENCES	2,743	2,284	82	26	2,176	459	1,582
ASTRONOMY	81	72	8	0	64	9	16
CHEMISTRY	1,810	1,465	65	23	1,377	345	1,119
PHYSICS	850	745	9	3	733	105	447
PHYSICAL SCIENCES, N.E.C.	2	2	0	0	2	0	0
ENVIRONMENTAL SCIENCES	235	182	8	0	174	53	88
ATMOSPHERIC SCIENCES	30	25	1	0	24	5	15
GEOSCIENCES	135	99	0	0	99	36	55
OCEANOGRAPHY	65	54	7	0	47	11	18
ENVIRONMENTAL SCIENCES, N.E.C.	5	4	0	0	4	1	0
MATHEMATICAL/COMPUTER SCIENCES	93	28	8	4	16	65	50
COMPUTER SCIENCE	23	11	0	4	7	12	4
MATHEMATICS AND APPLIED MATHEMATICS	60	13	8	0	5	47	40
STATISTICS	10	4	0	0	4	6	6
LIFE SCIENCES	7,033	4,947	930	1,045	2,972	2,086	2,119
AGRICULTURAL SCIENCES	268	160	1	7	152	108	115
BIOLOGICAL SCIENCES	4,449	3,425	620	477	2,328	1,024	1,365
ANATOMY	149	110	27	9	74	39	35
BIOCHEMISTRY	970	778	125	55	598	192	356
BIOLOGY	473	373	61	18	294	100	146
BIOMETRY/EPIDEMIOLOGY	25	22	6	7	9	3	4
BIOPHYSICS	34	27	1	7	19	7	19
BOTANY	269	188	2	0	186	81	86
CELL BIOLOGY	174	147	34	20	93	27	53
ECOLOGY	27	22	0	0	22	5	2
ENTOMOLOGY/PARASITOLOGY	106	78	3	2	73	28	25
GENETICS	148	122	26	24	72	26	36
MICROBIOLOGY	671	513	78	123	312	158	192
NUTRITION	63	41	6	5	30	22	18
PATHOLOGY	273	169	45	52	72	104	66
PHARMACOLOGY	451	345	83	66	196	106	186
PHYSIOLOGY	393	304	84	57	163	89	107
ZOOLOGY	185	153	27	22	104	32	28
BIOSCIENCES, N.E.C.	38	33	12	10	11	5	6
HEALTH SCIENCES	2,316	1,362	309	561	492	954	639
ANESTHESIOLOGY	23	11	8	3	0	12	9
CANCER/ONCOLOGY	78	66	8	29	29	12	28
CARDIOLOGY	221	118	25	72	21	103	51
DENTISTRY	156	34	4	11	19	122	17
ENDOCRINOLOGY	88	61	13	22	26	27	36
GASTROENTEROLOGY	62	37	10	20	7	25	10
HEMATOLOGY	74	60	15	31	14	14	12
NEUROLOGY	128	95	31	32	32	33	22
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	46	24	13	6	5	22	16
OPHTHALMOLOGY	50	27	5	12	10	23	15
OTORHINOLARYNGOLOGY	19	18	5	3	10	1	5
PEDIATRICS	175	101	37	34	30	74	35
PHARMACEUTICAL SCIENCES	223	148	6	5	137	75	145
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	85	61	14	35	12	24	9
PSYCHIATRY	125	92	20	61	11	33	17
PULMONARY DISEASE	83	42	28	11	3	41	6
RADIOLOGY	61	31	4	18	9	30	20
SPEECH PATHOLOGY/AUDIOLOGY	5	5	2	0	3	0	1
SURGERY	133	54	14	15	25	79	62
VETERINARY SCIENCES	35	8	1	4	3	27	6
CLINICAL MEDICINE, N.E.C.	394	225	41	124	60	169	105
HEALTH RELATED, N.E.C.	52	44	5	13	26	8	12
PSYCHOLOGY	268	216	38	55	123	52	33
SOCIAL SCIENCES	145	81	24	27	30	64	41
AGRICULTURAL ECONOMICS	9	3	0	0	3	6	6
ANTHROPOLOGY	29	16	2	11	3	13	3
ECONOMICS (EXCEPT AGRICULTURAL)	6	5	2	0	3	1	4
GEOGRAPHY	4	2	1	0	1	2	3
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	1	0	0	0	0
LINGUISTICS	16	4	0	0	4	12	9
POLITICAL SCIENCE	22	8	6	0	2	14	7
SOCIOLOGY	49	40	12	16	12	9	6
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	1	0	0
SOCIAL SCIENCES, N.E.C.	8	1	0	0	1	7	3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-33. -- SCIENCE/ENGINEERING POSTDOCTORATES IN PRIVATE GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1982

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	8,723	5,960	1,101	1,286	3,573	2,763	3,069
ENGINEERING	451	310	18	5	287	141	301
AEROSPACE	15	14	0	0	14	1	10
AGRICULTURAL	4	2	0	0	2	2	1
BIOMEDICAL	11	7	0	5	2	4	4
CHEMICAL	58	34	4	0	30	24	39
CIVIL	38	25	0	0	25	13	27
ELECTRICAL	94	59	1	0	58	35	47
ENGINEERING SCIENCE	67	59	9	0	50	8	36
INDUSTRIAL	0	0	0	0	0	0	0
MECHANICAL	56	37	1	0	36	19	44
METALLURGICAL/MATERIALS	82	61	2	0	59	21	74
MINING	9	0	0	0	0	9	8
NUCLEAR	1	1	0	0	1	0	0
PETROLEUM	3	2	0	0	2	1	2
ENGINEERING, N.E.C.	13	9	1	0	8	4	9
PHYSICAL SCIENCES	1,554	1,325	150	11	1,164	229	792
ASTRONOMY	67	63	6	0	57	4	17
CHEMISTRY	1,009	849	126	10	713	160	548
PHYSICS	478	413	18	1	394	65	227
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	104	73	3	1	69	31	34
ATMOSPHERIC SCIENCES	3	3	0	0	3	0	3
GEOSCIENCES	83	64	3	0	61	19	29
OCEANOGRAPHY	14	4	0	1	3	10	0
ENVIRONMENTAL SCIENCES, N.E.C.	4	2	0	0	2	2	2
MATHEMATICAL/COMPUTER SCIENCES	148	43	16	4	23	105	88
COMPUTER SCIENCE	35	21	9	0	12	14	9
MATHEMATICS AND APPLIED MATHEMATICS	109	19	6	2	11	90	78
STATISTICS	4	3	1	2	0	1	1
LIFE SCIENCES	6,068	3,973	840	1,187	1,946	2,095	1,762
AGRICULTURAL SCIENCES	15	8	0	0	8	7	3
BIOLOGICAL SCIENCES	3,335	2,413	483	472	1,458	922	1,044
ANATOMY	131	89	24	25	40	42	21
BIOCHEMISTRY	675	502	107	41	354	173	263
BIOLOGY	488	352	82	27	243	136	136
BIOMETRY/EPIDEMIOLOGY	28	19	0	13	6	9	10
BIOPHYSICS	97	90	5	11	74	7	33
BOTANY	29	25	0	0	25	4	10
CELL BIOLOGY	313	226	78	25	123	87	96
ECOLOGY	1	0	0	0	0	1	0
ENTOMOLOGY/PARASITOLOGY	13	10	0	0	10	3	5
GENETICS	163	109	20	29	60	54	44
MICROBIOLOGY	372	274	39	63	172	98	121
NUTRITION	75	45	5	13	27	30	19
PATHOLOGY	271	184	30	92	62	87	96
PHARMACOLOGY	345	243	43	58	142	102	117
PHYSIOLOGY	281	221	47	63	111	60	62
ZOOLOGY	38	21	2	11	8	17	6
BIOSCIENCES, N.E.C.	15	3	1	1	1	12	5
HEALTH SCIENCES	2,718	1,552	357	715	480	1,166	715
ANESTHESIOLOGY	49	23	2	12	9	26	17
CANCER/ONCOLOGY	20	17	0	11	6	3	6
CARDIOLOGY	163	89	24	50	15	74	39
DENTISTRY	95	20	17	2	1	75	34
ENDOCRINOLOGY	54	40	4	23	13	14	15
GASTROENTEROLOGY	62	46	13	20	13	16	15
HEMATOLOGY	79	70	3	48	19	9	15
NEUROLOGY	195	125	39	36	50	70	55
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	59	27	7	3	17	32	32
OPHTHALMOLOGY	101	59	16	19	24	42	27
OTORHINOLARYNGOLOGY	16	11	7	0	4	5	11
PEDIATRICS	376	178	44	81	53	198	73
PHARMACEUTICAL SCIENCES	15	11	0	0	11	4	6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	67	25	7	17	1	42	14
PSYCHIATRY	167	117	24	90	3	50	24
PULMONARY DISEASE	60	33	5	24	4	27	18
RADIOLOGY	124	85	14	33	38	39	51
SPEECH PATHOLOGY/AUDIOLOGY	2	2	1	1	0	0	0
SURGERY	207	96	24	27	45	111	84
VETERINARY SCIENCES	16	16	2	8	6	0	2
CLINICAL MEDICINE, N.E.C.	738	437	103	204	130	301	169
HEALTH RELATED, N.E.C.	53	25	1	6	18	28	8
PSYCHOLOGY	255	177	61	52	64	78	32
SOCIAL SCIENCES	143	59	13	26	20	84	60
AGRICULTURAL ECONOMICS	1	0	0	0	0	1	0
ANTHROPOLOGY	6	6	1	2	3	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	7	3	1	2	0	4	5
GEOGRAPHY	1	1	1	0	0	0	1
HISTORY AND PHILOSOPHY OF SCIENCE	13	4	3	0	1	9	6
LINGUISTICS	31	5	0	0	5	26	17
POLITICAL SCIENCE	22	7	3	1	3	15	11
SOCIOLOGY	40	27	4	21	2	13	11
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	1	1
SOCIAL SCIENCES, N.E.C.	21	6	0	0	6	15	8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-34. -- MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1982

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	15,293	10,862	1,672	1,723	7,467	4,431	6,264
ENGINEERING	898	625	39	24	562	273	622
AEROSPACE	25	19	0	0	19	6	19
AGRICULTURAL	6	2	0	0	2	4	3
BIOMEDICAL	24	22	0	9	13	2	4
CHEMICAL	154	93	12	0	81	61	122
CIVIL	101	62	0	6	56	39	69
ELECTRICAL	161	107	5	0	102	54	87
ENGINEERING SCIENCE	71	61	9	0	52	10	39
INDUSTRIAL	8	2	0	0	2	6	5
MECHANICAL	126	94	3	0	91	32	99
METALLURGICAL/MATERIALS	152	113	6	4	103	39	130
MINING	10	1	1	0	0	9	8
NUCLEAR	16	13	0	0	13	3	6
PETROLEUM	3	2	0	0	2	1	2
ENGINEERING, N.E.C.	41	34	3	5	26	7	29
PHYSICAL SCIENCES	3,781	3,173	203	31	2,939	608	2,140
ASTRONOMY	133	121	13	0	108	12	31
CHEMISTRY	2,418	1,979	167	27	1,785	439	1,471
PHYSICS	1,228	1,071	23	4	1,044	157	638
PHYSICAL SCIENCES, N.E.C.	2	2	0	0	2	0	0
ENVIRONMENTAL SCIENCES	288	221	9	1	211	67	107
ATMOSPHERIC SCIENCES	30	27	1	0	26	3	17
GEOSCIENCES	188	143	3	0	140	45	73
OCEANOGRAPHY	62	46	5	1	40	16	15
ENVIRONMENTAL SCIENCES, N.E.C.	8	5	0	0	5	3	2
MATHEMATICAL/COMPUTER SCIENCES	216	62	23	8	31	154	129
COMPUTER SCIENCE	48	28	8	4	16	20	12
MATHEMATICS AND APPLIED MATHEMATICS	158	29	14	2	13	129	112
STATISTICS	10	5	1	2	2	5	5
LIFE SCIENCES	9,633	6,469	1,316	1,578	3,575	3,164	3,149
AGRICULTURAL SCIENCES	250	148	1	7	140	102	111
BIOLOGICAL SCIENCES	5,571	4,171	794	664	2,713	1,400	1,935
ANATOMY	198	140	34	23	83	58	52
BIOCHEMISTRY	1,191	921	172	68	681	270	488
BIOLOGY	654	497	98	33	366	157	218
BIOMETRY/EPIDEMIOLOGY	36	26	6	7	13	10	12
BIOPHYSICS	105	94	4	12	78	11	43
BOTANY	209	143	1	0	142	66	76
CELL BIOLOGY	340	269	72	33	164	71	112
ECOLOGY	24	20	0	0	20	4	2
ENTOMOLOGY/PARASITOLOGY	105	79	2	1	76	26	27
GENETICS	193	140	30	31	79	53	66
MICROBIOLOGY	731	546	73	126	347	185	247
NUTRITION	99	59	8	13	38	40	27
PATHOLOGY	362	247	55	96	96	115	124
PHARMACOLOGY	630	465	102	105	258	165	261
PHYSIOLOGY	507	387	105	87	195	120	143
ZOOLOGY	148	113	21	23	69	35	28
BIOSCIENCES, N.E.C.	39	25	11	6	8	14	9
HEALTH SCIENCES	3,812	2,150	521	907	722	1,662	1,103
ANESTHESIOLOGY	47	23	7	7	9	24	21
CANCER/ONCOLOGY	71	57	7	30	20	14	30
CARDIOLOGY	310	177	44	101	32	133	80
DENTISTRY	208	39	18	12	9	169	32
ENDOCRINOLOGY	97	65	10	33	22	32	39
GASTROENTEROLOGY	106	69	22	32	15	37	17
HEMATOLOGY	111	91	16	55	20	20	23
NEUROLOGY	247	165	50	48	67	82	65
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	73	39	16	8	15	34	38
OPHTHALMOLOGY	116	66	17	21	28	50	35
OTORHINOLARYNGOLOGY	32	26	12	2	12	6	15
PEDIATRICS	366	186	57	72	57	180	81
PHARMACEUTICAL SCIENCES	185	122	6	4	112	63	122
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	100	56	15	32	9	44	17
PSYCHIATRY	178	124	20	91	13	54	33
PULMONARY DISEASE	123	66	30	29	7	57	20
RADIOLOGY	150	90	14	36	40	60	58
SPEECH PATHOLOGY/AUDIOLOGY	3	3	0	1	2	0	1
SURGERY	306	127	33	36	58	179	132
VETERINARY SCIENCES	26	8	0	5	3	18	5
CLINICAL MEDICINE, N.E.C.	885	501	122	238	141	384	226
HEALTH RELATED, N.E.C.	72	50	5	14	31	22	13
PSYCHOLOGY	304	234	58	57	119	70	42
SOCIAL SCIENCES	173	78	24	24	30	95	75
AGRICULTURAL ECONOMICS	9	2	0	0	2	7	5
ANTHROPOLOGY	14	8	2	3	3	6	2
ECONOMICS (EXCEPT AGRICULTURAL)	10	6	2	1	3	4	8
GEOGRAPHY	4	3	2	0	1	1	3
HISTORY AND PHILOSOPHY OF SCIENCE	7	4	3	0	1	3	3
LINGUISTICS	28	2	0	0	2	26	20
POLITICAL SCIENCE	28	11	6	1	4	17	14
SOCIOLOGY	52	39	9	19	11	13	9
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	1	1
SOCIAL SCIENCES, N.E.C.	20	3	0	0	3	17	10

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-35. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL GRADUATE INSTITUTIONS BY FIELD, SOURCE OF SUPPORT, AND CITIZENSHIP: 1982

FIELD	TOTAL	SOURCE OF SUPPORT					NUMBER OF FOREIGN POST-DOCTORATES
		FEDERAL				NON-FEDERAL	
		TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH GRANTS		
TOTAL, ALL FIELDS	4,479	3,201	542	743	1,916	1,278	1,076
ENGINEERING	85	50	2	4	44	35	37
AEROSPACE	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	6	3	0	3	0	3	2
CHEMICAL	21	7	0	0	7	14	11
CIVIL	7	4	0	0	4	3	1
ELECTRICAL	17	13	1	0	12	4	9
ENGINEERING SCIENCE	6	5	0	0	5	1	2
INDUSTRIAL	1	1	0	0	1	0	0
MECHANICAL	5	1	0	0	1	4	1
METALLURGICAL/MATERIALS	16	10	0	0	10	6	8
MINING	0	0	0	0	0	0	0
NUCLEAR	2	2	0	0	2	0	2
PETROLEUM	1	1	0	0	1	0	0
ENGINEERING, N.E.C.	3	3	1	1	1	0	1
PHYSICAL SCIENCES	516	436	29	6	401	80	234
ASTRONOMY	15	14	1	0	13	1	2
CHEMISTRY	401	335	24	6	305	66	196
PHYSICS	100	87	4	0	83	13	36
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	51	34	2	0	32	17	15
ATMOSPHERIC SCIENCES	3	1	0	0	1	2	1
GEOSCIENCES	30	20	0	0	20	10	11
OCEANOGRAPHY	17	12	2	0	10	5	3
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	0	0	1	0	0
MATHEMATICAL/COMPUTER SCIENCES	25	9	1	0	8	16	9
COMPUTER SCIENCE	10	4	1	0	3	6	1
MATHEMATICS AND APPLIED MATHEMATICS	11	3	0	0	3	8	6
STATISTICS	4	2	0	0	2	2	2
LIFE SCIENCES	3,468	2,451	454	654	1,343	1,017	732
AGRICULTURAL SCIENCES	33	20	0	0	20	13	7
BIOLOGICAL SCIENCES	2,213	1,667	309	285	1,073	546	474
ANATOMY	82	59	17	11	31	23	4
BIOCHEMISTRY	454	359	60	28	271	95	131
BIOLOGY	307	228	45	12	171	79	64
BIOMETRY/EPIDEMIOLOGY	17	15	0	13	2	2	2
BIOPHYSICS	26	23	2	6	15	3	9
BOTANY	89	70	1	0	69	19	20
CELL BIOLOGY	147	104	40	12	52	43	37
ECOLOGY	4	2	0	0	2	2	0
ENTOMOLOGY/PARASITOLOGY	14	9	1	1	7	5	3
GENETICS	118	91	16	22	53	27	14
MICROBIOLOGY	312	241	44	60	137	71	66
NUTRITION	39	27	3	5	19	12	10
PATHOLOGY	182	106	20	48	38	76	38
PHARMACOLOGY	166	123	24	19	80	43	42
PHYSIOLOGY	167	138	26	33	79	29	26
ZOOLOGY	75	61	8	10	43	14	6
BIOSCIENCES, N.E.C.	14	11	2	5	4	3	2
HEALTH SCIENCES	1,222	764	145	369	250	458	251
ANESTHESIOLOGY	25	11	3	8	0	14	5
CANCER/ONCOLOGY	27	26	1	10	15	1	4
CARDIOLOGY	74	30	5	21	4	44	10
DENTISTRY	43	15	3	1	11	28	19
ENDOCRINOLOGY	45	36	7	12	17	9	12
GASTROENTEROLOGY	18	14	1	8	5	4	8
HEMATOLOGY	42	39	2	24	13	3	4
NEUROLOGY	76	55	20	20	15	21	12
NURSING	0	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	32	12	4	1	7	20	10
OPHTHALMOLOGY	35	20	4	10	6	15	7
OTORHINOLARYNGOLOGY	3	3	0	1	2	0	1
PEDIATRICS	185	93	24	43	26	92	27
PHARMACEUTICAL SCIENCES	53	37	0	1	36	16	29
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	52	30	6	20	4	22	6
PSYCHIATRY	114	85	24	60	1	29	8
PULMONARY DISEASE	20	9	3	6	0	11	4
RADIOLOGY	35	26	4	15	7	9	13
SPEECH PATHOLOGY/AUDIOLOGY	4	4	3	0	1	0	0
SURGERY	34	23	5	6	12	11	14
VETERINARY SCIENCES	25	16	3	7	6	9	3
CLINICAL MEDICINE, N.E.C.	247	161	22	90	49	86	48
HEALTH RELATED, N.E.C.	33	19	1	5	13	14	7
PSYCHOLOGY	219	159	41	50	68	60	23
SOCIAL SCIENCES	115	62	13	29	20	53	26
AGRICULTURAL ECONOMICS	1	1	0	0	1	0	1
ANTHROPOLOGY	21	14	1	10	3	7	1
ECONOMICS (EXCEPT AGRICULTURAL)	3	2	1	1	0	1	1
GEOGRAPHY	1	0	0	0	0	1	1
HISTORY AND PHILOSOPHY OF SCIENCE	7	1	1	0	0	6	3
LINGUISTICS	19	7	0	0	7	12	6
POLITICAL SCIENCE	16	4	3	0	1	12	4
SOCIOLOGY	37	28	7	18	3	9	8
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	1	0	0
SOCIAL SCIENCES, N.E.C.	9	4	0	0	4	5	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-36. — SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1982

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	19,772	19,733	39	4,048	4,040	8
ENGINEERING	983	979	4	671	671	0
AEROSPACE	25	25	0	26	26	0
AGRICULTURAL	6	6	0	3	3	0
BIOMEDICAL	30	30	0	10	10	0
CHEMICAL	175	175	0	96	96	0
CIVIL	108	108	0	115	115	0
ELECTRICAL	178	176	2	74	74	0
ENGINEERING SCIENCE	77	77	0	33	33	0
INDUSTRIAL	9	9	0	27	27	0
MECHANICAL	131	131	0	149	149	0
METALLURGICAL/MATERIALS	168	166	2	89	89	0
MINING	10	10	0	9	9	0
NUCLEAR	18	18	0	19	19	0
PETROLEUM	4	4	0	0	0	0
ENGINEERING, N.E.C.	44	44	0	21	21	0
PHYSICAL SCIENCES	4,297	4,280	17	810	805	5
ASTRONOMY	148	148	0	71	71	0
CHEMISTRY	2,819	2,806	13	348	347	1
PHYSICS	1,328	1,324	4	390	386	4
PHYSICAL SCIENCES, N.E.C.	2	2	0	1	1	0
ENVIRONMENTAL SCIENCES	339	334	5	238	238	0
ATMOSPHERIC SCIENCES	33	32	1	29	29	0
GEOSCIENCES	218	216	2	100	100	0
OCEANOGRAPHY	79	78	1	99	99	0
ENVIRONMENTAL SCIENCES, N.E.C.	9	8	1	10	10	0
MATHEMATICAL/COMPUTER SCIENCES	241	240	1	129	129	0
COMPUTER SCIENCE	58	57	1	80	80	0
MATHEMATICS AND APPLIED MATHEMATICS	169	169	0	29	29	0
STATISTICS	14	14	0	20	20	0
LIFE SCIENCES	13,101	13,090	11	1,913	1,911	2
AGRICULTURAL SCIENCES	283	283	0	70	70	0
BIOLOGICAL SCIENCES	7,784	7,775	9	1,298	1,296	2
ANATOMY	280	280	0	43	43	0
BIOCHEMISTRY	1,645	1,645	0	218	218	0
BIOLOGY	961	952	9	298	296	2
BIOMETRY/EPIDEMIOLOGY	53	53	0	15	15	0
BIOPHYSICS	131	131	0	54	54	0
BOTANY	298	298	0	76	76	0
CELL BIOLOGY	487	487	0	38	38	0
ECOLOGY	28	28	0	5	5	0
ENTOMOLOGY/PARASITOLOGY	119	119	0	47	47	0
GENETICS	311	311	0	20	20	0
MICROBIOLOGY	1,043	1,043	0	103	103	0
NUTRITION	138	138	0	38	38	0
PATHOLOGY	544	544	0	43	43	0
PHARMACOLOGY	796	796	0	90	90	0
PHYSIOLOGY	674	674	0	160	160	0
ZOOLOGY	223	223	0	29	29	0
BIOSCIENCES, N.E.C.	53	53	0	21	21	0
HEALTH SCIENCES	5,034	5,032	2	545	545	0
ANESTHESIOLOGY	72	72	0	1	1	0
CANCER/ONCOLOGY	98	98	0	21	21	0
CARDIOLOGY	384	384	0	36	36	0
DENTISTRY	251	251	0	2	2	0
ENDOCRINOLOGY	142	142	0	7	7	0
GASTROENTEROLOGY	124	124	0	10	10	0
HEMATOLOGY	153	153	0	1	1	0
NEUROLOGY	323	323	0	36	36	0
NURSING	0	0	0	8	8	0
OBSTETRICS/GYNECOLOGY	105	105	0	9	9	0
OPHTHALMOLOGY	151	151	0	14	14	0
OTORHINOLARYNGOLOGY	35	35	0	6	6	0
PEDIATRICS	551	551	0	43	43	0
PHARMACEUTICAL SCIENCES	238	238	0	24	24	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	152	152	0	33	33	0
PSYCHIATRY	292	292	0	142	142	0
PULMONARY DISEASE	143	143	0	9	9	0
RADIOLOGY	185	185	0	31	31	0
SPEECH PATHOLOGY/AUDIOLOGY	7	7	0	10	10	0
SURGERY	340	340	0	43	43	0
VETERINARY SCIENCES	51	49	2	3	3	0
CLINICAL MEDICINE, N.E.C.	1,132	1,132	0	55	55	0
HEALTH RELATED, N.E.C.	105	105	0	1	1	0
PSYCHOLOGY	523	523	0	150	150	0
SOCIAL SCIENCES	288	287	1	137	136	1
AGRICULTURAL ECONOMICS	10	10	0	18	18	0
ANTHROPOLOGY	35	34	1	20	19	1
ECONOMICS (EXCEPT AGRICULTURAL)	13	13	0	49	49	0
GEOGRAPHY	5	5	0	3	3	0
HISTORY AND PHILOSOPHY OF SCIENCE	14	14	0	2	2	0
LINGUISTICS	47	47	0	3	3	0
POLITICAL SCIENCE	44	44	0	6	6	0
SOCIOLOGY	89	89	0	23	23	0
SOCIOLOGY/ANTHROPOLOGY	2	2	0	0	0	0
SOCIAL SCIENCES, N.E.C.	29	29	0	13	13	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-37. -- SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN PUBLIC GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1982

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	11,049	11,016	33	2,406	2,402	4
ENGINEERING	532	528	4	410	410	0
AEROSPACE	10	10	0	20	20	0
AGRICULTURAL	2	2	0	3	3	0
BIOMEDICAL	19	19	0	5	5	0
CHEMICAL	117	117	0	75	75	0
CIVIL	70	70	0	81	81	0
ELECTRICAL	84	82	2	37	37	0
ENGINEERING SCIENCE	10	10	0	2	2	0
INDUSTRIAL	9	9	0	27	27	0
MECHANICAL	75	75	0	81	81	0
METALLURGICAL/MATERIALS	86	84	2	53	53	0
MINING	1	1	0	0	0	0
NUCLEAR	17	17	0	19	19	0
PETROLEUM	1	1	0	0	0	0
ENGINEERING, N.E.C.	31	31	0	7	7	0
PHYSICAL SCIENCES	2,743	2,730	13	545	542	3
ASTRONOMY	81	81	0	39	39	0
CHEMISTRY	1,810	1,799	11	260	259	1
PHYSICS	850	848	2	245	243	2
PHYSICAL SCIENCES, N.E.C.	2	2	0	1	1	0
ENVIRONMENTAL SCIENCES	235	230	5	88	88	0
ATMOSPHERIC SCIENCES	30	29	1	26	26	0
GEOSCIENCES	135	133	2	29	29	0
OCEANOGRAPHY	65	64	1	23	23	0
ENVIRONMENTAL SCIENCES, N.E.C.	5	4	1	10	10	0
MATHEMATICAL/COMPUTER SCIENCES	93	92	1	34	34	0
COMPUTER SCIENCE	23	22	1	3	3	0
MATHEMATICS AND APPLIED MATHEMATICS	60	60	0	12	12	0
STATISTICS	10	10	0	19	19	0
LIFE SCIENCES	7,033	7,024	9	1,221	1,221	0
AGRICULTURAL SCIENCES	268	268	0	66	66	0
BIOLOGICAL SCIENCES	4,449	4,440	9	822	822	0
ANATOMY	149	149	0	28	28	0
BIOCHEMISTRY	970	970	0	151	151	0
BIOLOGY	473	464	9	141	141	0
BIOMETRY/EPIDEMIOLOGY	25	25	0	8	8	0
BIOPHYSICS	34	34	0	19	19	0
BOTANY	269	269	0	69	69	0
CELL BIOLOGY	174	174	0	29	29	0
ECOLOGY	27	27	0	2	2	0
ENTOMOLOGY/PARASITOLOGY	106	106	0	47	47	0
GENETICS	148	148	0	10	10	0
MICROBIOLOGY	671	671	0	74	74	0
NUTRITION	63	63	0	22	22	0
PATHOLOGY	273	273	0	23	23	0
PHARMACOLOGY	451	451	0	58	58	0
PHYSIOLOGY	393	393	0	98	98	0
ZOOLOGY	185	185	0	28	28	0
BIOSCIENCES, N.E.C.	38	38	0	15	15	0
HEALTH SCIENCES	2,316	2,316	0	333	333	0
ANESTHESIOLOGY	23	23	0	0	0	0
CANCER/ONCOLOGY	78	78	0	21	21	0
CARDIOLOGY	221	221	0	22	22	0
DENTISTRY	156	156	0	2	2	0
ENDOCRINOLOGY	88	88	0	3	3	0
GASTROENTEROLOGY	62	62	0	6	6	0
HEMATOLOGY	74	74	0	0	0	0
NEUROLOGY	128	128	0	12	12	0
NURSING	0	0	0	8	8	0
OBSTETRICS/GYNECOLOGY	46	46	0	2	2	0
OPHTHALMOLOGY	50	50	0	6	6	0
OTORHINOLARYNGOLOGY	19	19	0	5	5	0
PEDIATRICS	175	175	0	11	11	0
PHARMACEUTICAL SCIENCES	223	223	0	23	23	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	85	85	0	21	21	0
PSYCHIATRY	125	125	0	128	128	0
PULMONARY DISEASE	83	83	0	3	3	0
RADIOLOGY	61	61	0	6	6	0
SPEECH PATHOLOGY/AUDIOLOGY	5	5	0	9	9	0
SURGERY	133	133	0	21	21	0
VETERINARY SCIENCES	35	35	0	3	3	0
CLINICAL MEDICINE, N.E.C.	394	394	0	21	21	0
HEALTH RELATED, N.E.C.	52	52	0	0	0	0
PSYCHOLOGY	268	268	0	43	43	0
SOCIAL SCIENCES	145	144	1	65	64	1
AGRICULTURAL ECONOMICS	9	9	0	18	18	0
ANTHROPOLOGY	29	28	1	16	15	1
ECONOMICS (EXCEPT AGRICULTURAL)	6	6	0	5	5	0
GEOGRAPHY	4	4	0	3	3	0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	2	2	0
LINGUISTICS	16	16	0	1	1	0
POLITICAL SCIENCE	22	22	0	1	1	0
SOCIOLOGY	49	49	0	7	7	0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	8	8	0	12	12	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-38. -- SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN PRIVATE GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1982

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	8,723	8,717	6	1,642	1,638	4
ENGINEERING	451	451	0	261	261	0
AEROSPACE	15	15	C	6	6	0
AGRICULTURAL	4	4	0	0	0	0
BIOMEDICAL	11	11	0	5	5	0
CHEMICAL	58	58	0	21	21	0
CIVIL	38	38	0	34	34	0
ELECTRICAL	94	94	0	37	37	0
ENGINEERING SCIENCE	67	67	0	31	31	0
INDUSTRIAL	0	0	0	0	0	0
MECHANICAL	56	56	0	68	68	0
METALLURGICAL/MATERIALS	82	82	0	36	36	0
MINING	9	9	0	9	9	0
NUCLEAR	1	1	0	0	0	0
PETROLEUM	3	3	0	0	0	0
ENGINEERING, N.E.C.	13	13	0	14	14	0
PHYSICAL SCIENCES	1,554	1,550	4	265	263	2
ASTRONOMY	67	67	0	32	32	0
CHEMISTRY	1,009	1,007	2	88	88	0
PHYSICS	478	476	2	145	143	2
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	104	104	0	150	150	0
ATMOSPHERIC SCIENCES	3	3	0	3	3	0
GEOSCIENCES	83	83	0	71	71	0
OCEANOGRAPHY	14	14	0	76	76	0
ENVIRONMENTAL SCIENCES, N.E.C.	4	4	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	148	148	0	95	95	0
COMPUTER SCIENCE	35	35	0	77	77	0
MATHEMATICS AND APPLIED MATHEMATICS	109	109	0	17	17	0
STATISTICS	4	4	0	1	1	0
LIFE SCIENCES	6,068	6,066	2	692	690	2
AGRICULTURAL SCIENCES	15	15	0	4	4	0
BIOLOGICAL SCIENCES	3,335	3,335	0	476	474	2
ANATOMY	131	131	0	15	15	0
BIOCHEMISTRY	675	675	0	67	67	0
BIOLOGY	488	488	0	157	155	2
BIOMETRY/EPIDEMIOLOGY	28	28	0	7	7	0
BIOPHYSICS	97	97	0	35	35	0
BOTANY	29	29	0	7	7	0
CELL BIOLOGY	313	313	0	9	9	0
ECOLOGY	1	1	0	3	3	0
ENTOMOLOGY/PARASITOLOGY	13	13	0	0	0	0
GENETICS	163	163	0	10	10	0
MICROBIOLOGY	372	372	0	29	29	0
NUTRITION	75	75	0	16	16	0
PATHOLOGY	271	271	0	20	20	0
PHARMACOLOGY	345	345	0	32	32	0
PHYSIOLOGY	281	281	0	62	62	0
ZOOLOGY	38	38	0	1	1	0
BIOSCIENCES, N.E.C.	15	15	0	6	6	0
HEALTH SCIENCES	2,718	2,716	2	212	212	0
ANESTHESIOLOGY	49	49	0	1	1	0
CANCER/ONCOLOGY	20	20	0	0	0	0
CARDIOLOGY	163	163	0	14	14	0
DENTISTRY	95	95	0	0	0	0
ENDOCRINOLOGY	54	54	0	4	4	0
GASTROENTEROLOGY	62	62	0	4	4	0
HEMATOLOGY	79	79	0	1	1	0
NEUROLOGY	195	195	0	24	24	0
NURSING	0	0	0	0	0	0
OBSTETRICS/GYNECOLOGY	59	59	0	7	7	0
OPHTHALMOLOGY	101	101	0	8	8	0
OTORHINOLARYNGOLOGY	16	16	0	1	1	0
PEDIATRICS	376	376	0	32	32	0
PHARMACEUTICAL SCIENCES	15	15	0	1	1	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	67	67	0	12	12	0
PSYCHIATRY	167	167	0	14	14	0
PULMONARY DISEASE	60	60	0	6	6	0
RADIOLOGY	124	124	0	25	25	0
SPEECH PATHOLOGY/AUDIOLOGY	2	2	0	1	1	0
SURGERY	207	207	0	22	22	0
VETERINARY SCIENCES	16	14	2	0	0	0
CLINICAL MEDICINE, N.E.C.	738	738	0	34	34	0
HEALTH RELATED, N.E.C.	53	53	0	1	1	0
PSYCHOLOGY	255	255	0	107	107	0
SOCIAL SCIENCES	143	143	0	72	72	0
AGRICULTURAL ECONOMICS	1	1	0	0	0	0
ANTHROPOLOGY	6	6	0	4	4	0
ECONOMICS (EXCEPT AGRICULTURAL)	7	7	0	44	44	0
GEOGRAPHY	1	1	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	13	13	0	0	0	0
LINGUISTICS	31	31	0	2	2	0
POLITICAL SCIENCE	22	22	0	5	5	0
SOCIOLOGY	40	40	0	16	16	0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	21	21	0	1	1	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-39. — MALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1982

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	15,293	15,269	24	3,195	3,188	7
ENGINEERING	898	896	2	638	638	0
AEROSPACE	25	25	0	25	25	0
AGRICULTURAL	6	6	0	2	2	0
BIOMEDICAL	24	24	0	9	9	0
CHEMICAL	154	154	0	89	89	0
CIVIL	101	101	0	111	111	0
ELECTRICAL	161	160	1	70	70	0
ENGINEERING SCIENCE	71	71	0	30	30	0
INDUSTRIAL	8	8	0	27	27	0
MECHANICAL	126	126	0	144	144	0
METALLURGICAL/MATERIALS	152	151	1	85	85	0
MINING	10	10	0	9	9	0
NUCLEAR	16	16	0	18	18	0
PETROLEUM	3	3	0	0	0	0
ENGINEERING, N.E.C.	41	41	0	19	19	0
PHYSICAL SCIENCES	3,781	3,769	12	693	688	5
ASTRONOMY	133	133	0	65	65	0
CHEMISTRY	2,418	2,410	8	256	255	1
PHYSICS	1,228	1,224	4	371	367	4
PHYSICAL SCIENCES, N.E.C.	2	2	0	1	1	0
ENVIRONMENTAL SCIENCES	288	285	3	217	217	0
ATMOSPHERIC SCIENCES	30	30	0	28	28	0
GEOSCIENCES	188	186	2	93	93	0
OCEANOGRAPHY	62	61	1	87	87	0
ENVIRONMENTAL SCIENCES, N.E.C.	8	8	0	9	9	0
MATHEMATICAL/COMPUTER SCIENCES	216	215	1	118	118	0
COMPUTER SCIENCE	48	47	1	74	74	0
MATHEMATICS AND APPLIED MATHEMATICS	158	158	0	25	25	0
STATISTICS	10	10	0	19	19	0
LIFE SCIENCES	9,633	9,627	6	1,343	1,341	2
AGRICULTURAL SCIENCES	250	250	0	56	56	0
BIOLOGICAL SCIENCES	5,571	5,565	6	928	926	2
ANATOMY	198	198	0	31	31	0
BIOCHEMISTRY	1,191	1,191	0	151	151	0
BIOLOGY	654	648	6	197	195	2
BIOMETRY/EPIDEMIOLOGY	36	36	0	7	7	0
BIOPHYSICS	105	105	0	44	44	0
BOTANY	209	209	0	57	57	0
CELL BIOLOGY	340	340	0	25	25	0
ECOLOGY	24	24	0	2	2	0
ENTOMOLOGY/PARASITOLOGY	105	105	0	45	45	0
GENETICS	193	193	0	9	9	0
MICROBIOLOGY	731	731	0	71	71	0
NUTRITION	99	99	0	26	26	0
PATHOLOGY	362	362	0	33	33	0
PHARMACOLOGY	630	630	0	64	64	0
PHYSIOLOGY	507	507	0	124	124	0
ZOOLOGY	148	148	0	23	23	0
BIOSCIENCES, N.E.C.	39	39	0	19	19	0
HEALTH SCIENCES	3,812	3,812	0	359	359	0
ANESTHESIOLOGY	47	47	0	1	1	0
CANCER/ONCOLOGY	71	71	0	11	11	0
CARDIOLOGY	310	310	0	28	28	0
DENTISTRY	208	208	0	2	2	0
ENDOCRINOLOGY	97	97	0	6	6	0
GASTROENTEROLOGY	106	106	0	7	7	0
HEMATOLOGY	111	111	0	1	1	0
NEUROLOGY	247	247	0	29	29	0
NURSING	0	0	0	1	1	0
OBSTETRICS/GYNECOLOGY	73	73	0	2	2	0
OPHTHALMOLOGY	116	116	0	9	9	0
OTORHINOLARYNGOLOGY	32	32	0	3	3	0
PEDIATRICS	366	366	0	27	27	0
PHARMACEUTICAL SCIENCES	185	185	0	18	18	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	100	100	0	21	21	0
PSYCHIATRY	178	178	0	81	81	0
PULMONARY DISEASE	123	123	0	8	8	0
RADIOLOGY	150	150	0	21	21	0
SPEECH PATHOLOGY/AUDIOLOGY	3	3	0	7	7	0
SURGERY	306	306	0	37	37	0
VETERINARY SCIENCES	26	26	0	2	2	0
CLINICAL MEDICINE, N.E.C.	885	885	0	37	37	0
HEALTH RELATED, N.E.C.	72	72	0	0	0	0
PSYCHOLOGY	304	304	0	89	89	0
SOCIAL SCIENCES	173	173	0	97	97	0
AGRICULTURAL ECONOMICS	9	9	0	15	15	0
ANTHROPOLOGY	14	14	0	7	7	0
ECONOMICS (EXCEPT AGRICULTURAL)	10	10	0	42	42	0
GEOGRAPHY	4	4	0	1	1	0
HISTORY AND PHILOSOPHY OF SCIENCE	7	7	0	2	2	0
LINGUISTICS	28	28	0	0	0	0
POLITICAL SCIENCE	28	28	0	5	5	0
SOCIOLOGY	52	52	0	15	15	0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	20	20	0	10	10	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE A-40. -- FEMALE SCIENCE/ENGINEERING POSTDOCTORATES AND OTHER NON-FACULTY DOCTORAL RESEARCH STAFF IN ALL GRADUATE INSTITUTIONS BY FIELD AND HIGHEST DEGREE GRANTED: 1982

FIELD	POSTDOCTORATES			OTHER NON-FACULTY DOCTORAL RESEARCH STAFF		
	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING	ALL INSTITUTIONS	DOCTORATE-GRANTING	MASTER'S-GRANTING
TOTAL, ALL FIELDS	4,479	4,464	15	853	852	1
ENGINEERING	85	83	2	33	33	0
AEROSPACE	0	0	0	1	1	0
AGRICULTURAL	0	0	0	1	1	0
BIOMEDICAL	6	6	0	1	1	0
CHEMICAL	21	21	0	7	7	0
CIVIL	7	7	0	4	4	0
ELECTRICAL	17	16	1	4	4	0
ENGINEERING SCIENCE	6	6	0	3	3	0
INDUSTRIAL	1	1	0	0	0	0
MECHANICAL	5	5	0	5	5	0
METALLURGICAL/MATERIALS	16	15	1	4	4	0
MINING	0	0	0	0	0	0
NUCLEAR	2	2	0	1	1	0
PETROLEUM	1	1	0	0	0	0
ENGINEERING, N.E.C.	3	3	0	2	2	0
PHYSICAL SCIENCES	516	511	5	117	117	0
ASTRONOMY	15	15	0	6	6	0
CHEMISTRY	401	396	5	92	92	0
PHYSICS	100	100	0	19	19	0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	51	49	2	21	21	0
ATMOSPHERIC SCIENCES	3	2	1	1	1	0
GEOSCIENCES	30	30	0	7	7	0
OCEANOGRAPHY	17	17	0	12	12	0
ENVIRONMENTAL SCIENCES, N.E.C.	1	0	1	1	1	0
MATHEMATICAL/COMPUTER SCIENCES	25	25	0	11	11	0
COMPUTER SCIENCE	10	10	0	6	6	0
MATHEMATICS AND APPLIED MATHEMATICS	11	11	0	4	4	0
STATISTICS	4	4	0	1	1	0
LIFE SCIENCES	3,468	3,463	5	570	570	0
AGRICULTURAL SCIENCES	33	33	0	14	14	0
BIOLOGICAL SCIENCES	2,213	2,210	3	370	370	0
ANATOMY	82	82	0	12	12	0
BIOCHEMISTRY	454	454	0	67	67	0
BIOLOGY	307	304	3	101	101	0
BIOMETRY/EPIDEMIOLOGY	17	17	0	8	8	0
BIOPHYSICS	26	26	0	10	10	0
BOTANY	89	89	0	19	19	0
CELL BIOLOGY	147	147	0	13	13	0
ECOLOGY	4	4	0	3	3	0
ENTOMOLOGY/PARASITOLOGY	14	14	0	2	2	0
GENETICS	118	118	0	11	11	0
MICROBIOLOGY	312	312	0	32	32	0
NUTRITION	39	39	0	12	12	0
PATHOLOGY	182	182	0	10	10	0
PHARMACOLOGY	166	166	0	26	26	0
PHYSIOLOGY	167	167	0	36	36	0
ZOOLOGY	75	75	0	6	6	0
BIOSCIENCES, N.E.C.	14	14	0	2	2	0
HEALTH SCIENCES	1,322	1,220	2	186	186	0
ANESTHESIOLOGY	25	25	0	0	0	0
CANCER/ONCOLOGY	27	27	0	10	10	0
CARDIOLOGY	74	74	0	8	8	0
DENTISTRY	43	43	0	0	0	0
ENDOCRINOLOGY	45	45	0	1	1	0
GASTROENTEROLOGY	18	18	0	3	3	0
HEMATOLOGY	42	42	0	0	0	0
NEUROLOGY	76	76	0	7	7	0
NURSING	0	0	0	7	7	0
OBSTETRICS/GYNECOLOGY	32	32	0	7	7	0
OPHTHALMOLOGY	35	35	0	5	5	0
OTORHINOLARYNGOLOGY	3	3	0	3	3	0
PEDIATRICS	185	185	0	16	16	0
PHARMACEUTICAL SCIENCES	53	53	0	6	6	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	52	52	0	12	12	0
PSYCHIATRY	114	114	0	61	61	0
PULMONARY DISEASE	20	20	0	1	1	0
RADIOLOGY	35	35	0	10	10	0
SPEECH PATHOLOGY/AUDIOLOGY	4	4	0	3	3	0
SURGERY	34	34	0	6	6	0
VETERINARY SCIENCES	25	23	2	1	1	0
CLINICAL MEDICINE, N.E.C.	247	247	0	18	18	0
HEALTH RELATED, N.E.C.	33	33	0	1	1	0
PSYCHOLOGY	219	219	0	61	61	0
SOCIAL SCIENCES	115	114	1	40	39	1
AGRICULTURAL ECONOMICS	1	1	0	3	3	0
ANTHROPOLOGY	21	20	1	13	12	1
ECONOMICS (EXCEPT AGRICULTURAL)	3	3	0	7	7	0
GEOGRAPHY	1	1	0	2	2	0
HISTORY AND PHILOSOPHY OF SCIENCE	7	7	0	0	0	0
LINGUISTICS	19	19	0	3	3	0
POLITICAL SCIENCE	16	16	0	1	1	0
SOCIOLOGY	37	37	0	8	8	0
SOCIOLOGY/ANTHROPOLOGY	1	1	0	0	0	0
SOCIAL SCIENCES, N.E.C.	9	9	0	3	3	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	337,526	344,119	358,323	373,198	383,100	391,660	399,682	2.5	2.0	2.4
ENGINEERING	68,360	67,951	70,383	73,783	76,914	82,694	86,789	3.2	5.0	3.5
AEROSPACE	1,670	1,477	1,518	1,481	1,737	1,883	1,941	2.0	3.1	2.2
AGRICULTURAL	588	639	709	740	742	802	875	5.3	9.1	5.8
BIOMEDICAL	926	946	900	1,051	1,011	1,057	1,116	2.2	5.6	2.7
CHEMICAL	5,034	5,205	5,201	5,605	6,015	6,496	7,189	4.3	10.7	5.2
CIVIL	12,560	11,867	12,751	13,340	13,651	14,616	14,680	2.6	.4	2.3
ELECTRICAL	16,320	15,926	17,406	17,789	19,227	20,193	22,017	3.6	9.0	4.4
ENGINEERING SCIENCE	1,746	1,809	1,824	1,784	1,919	2,080	2,286	3.0	9.9	3.9
INDUSTRIAL	11,663	11,739	11,478	11,984	11,403	12,037	11,764	.5	-2.3	.1
MECHANICAL	8,601	8,374	8,783	9,337	9,975	10,713	11,568	3.7	8.0	4.3
METALLURGICAL/MATERIALS	2,352	2,375	2,559	2,756	2,910	3,125	3,124	4.9	*	4.1
MINING	412	515	452	389	413	462	449	1.9	-2.8	1.2
NUCLEAR	1,636	1,600	1,491	1,318	1,241	1,283	1,301	-4.0	1.4	-3.2
PETROLEUM	302	376	379	424	503	521	586	9.5	12.5	9.9
ENGINEERING, N.E.C.	4,550	5,103	4,932	5,785	6,167	7,426	7,893	8.5	6.3	8.2
PHYSICAL SCIENCES	26,310	26,628	26,857	26,689	26,949	27,380	28,205	.7	3.0	1.0
ASTRONOMY	711	681	644	638	628	597	632	-2.9	5.9	-1.7
CHEMISTRY	15,287	15,651	16,020	16,101	16,222	16,347	17,019	1.1	4.1	1.5
PHYSICS	10,068	10,067	9,931	9,696	9,895	10,145	10,306	.1	1.6	.3
PHYSICAL SCIENCES, N.E.C.	244	229	262	254	204	291	248	3.0	-14.8	.2
ENVIRONMENTAL SCIENCES	12,289	12,809	13,387	13,585	13,894	14,194	14,916	2.4	5.1	2.8
ATMOSPHERIC SCIENCES	937	930	929	892	923	914	934	-.4	2.2	*
GEOSCIENCES	7,204	7,634	7,961	8,431	8,566	8,709	9,526	3.2	9.4	4.1
OCEANOGRAPHY	1,737	1,775	1,957	1,867	1,992	2,082	2,091	3.1	.4	2.7
ENVIRONMENTAL SCIENCES, N.E.C.	2,411	2,470	2,540	2,395	2,413	2,489	2,365	.5	-5.0	-.3
MATHEMATICAL/COMPUTER SCIENCES	25,333	25,668	25,122	26,707	28,889	32,306	37,021	4.1	14.6	5.6
COMPUTER SCIENCE	8,415	8,981	9,461	12,110	13,925	16,852	20,266	12.3	20.3	13.4
MATHEMATICS AND APPLIED MATHEMATICS	14,934	14,655	13,657	12,648	12,929	13,477	14,707	-1.7	9.1	-.2
STATISTICS	1,984	2,032	2,004	1,949	2,035	1,977	2,048	-.1	3.6	.5
LIFE SCIENCES	83,224	88,033	95,712	99,977	102,612	103,237	103,518	3.7	.3	3.2
AGRICULTURAL SCIENCES	10,578	11,164	11,528	12,125	12,326	12,152	12,517	2.3	3.0	2.4
BIOLOGICAL SCIENCES	46,577	48,047	49,648	48,624	47,986	46,946	46,552	.1	-.8	*
ANATOMY	1,120	1,163	1,198	1,166	1,112	1,102	1,113	-.3	1.0	-.1
BIOCHEMISTRY	3,856	3,884	3,941	4,029	3,977	3,992	4,099	.6	2.7	.9
BIOLOGY	16,336	17,123	17,219	16,021	15,231	14,435	13,648	-2.0	-5.5	-2.5
BIOMETRY/EPIDEMIOLOGY	871	884	1,070	1,133	1,265	1,188	1,172	5.3	-1.3	4.3
BIOPHYSICS	698	594	570	525	485	463	442	-6.6	-4.5	-6.3
BOTANY	3,501	3,779	3,838	3,570	3,551	3,450	3,593	-.2	4.1	.4
CELL BIOLOGY	651	611	671	748	841	903	1,055	5.6	16.8	7.1
ECOLOGY	789	885	1,020	1,017	1,131	1,056	1,003	5.0	-5.0	3.5
ENTOMOLOGY/PARASITOLOGY	1,574	1,595	1,602	1,697	1,722	1,664	1,540	.9	-7.5	-.3
GENETICS	867	883	1,006	950	948	922	971	1.0	5.3	1.6
MICROBIOLOGY	4,166	4,324	4,535	4,190	4,224	4,113	4,287	-.2	4.2	.4
NUTRITION	2,842	3,137	3,816	3,920	4,091	4,327	4,337	7.3	.2	6.2
PATHOLOGY	1,542	1,612	1,674	1,850	1,889	1,732	1,706	2.0	-1.5	1.5
PHARMACOLOGY	1,602	1,705	1,793	2,004	2,015	2,021	2,090	3.9	3.4	3.9
PHYSIOLOGY	2,301	2,210	2,109	2,186	2,097	2,136	2,061	-1.2	-3.5	-1.6
ZOOLOGY	3,543	3,303	3,071	2,900	2,686	2,645	2,522	-4.8	-4.7	-4.7
BIOSCIENCES, N.E.C.	318	355	515	718	721	797	913	16.5	14.6	16.3
HEALTH SCIENCES	26,069	28,822	34,536	39,228	42,300	44,139	44,449	9.2	.7	7.9
ANESTHESIOLOGY	55	5	5	20	17	20	41	-15.5	105.0	-4.1
CANCER/ONCOLOGY	59	47	51	47	46	46	57	-4.1	23.9	-.5
CARDIOLOGY	23	2	5	3	38	36	59	7.8	63.9	14.4
DENTISTRY	1,098	1,054	1,147	1,186	1,133	1,072	930	-.4	-13.2	-2.3
ENDOCRINOLOGY	42	36	37	49	53	51	54	3.3	5.9	3.7
GASTROENTEROLOGY	15	8	8	0	0	4	7	-19.8	75.0	-10.3
HEMATOLOGY	3	4	18	20	16	9	7	20.1	-22.2	12.9
NEUROLOGY	322	300	316	362	365	304	332	-1.0	9.2	.4
NURSING	5,307	7,255	10,943	12,796	13,877	15,703	16,425	19.8	4.6	17.5
OBSTETRICS/GYNECOLOGY	53	59	27	36	6	13	24	-20.9	84.6	-10.7
OPHTHALMOLOGY	30	13	16	6	16	22	22	-5.0	.0	-4.3
OTORHINOLARYNGOLOGY	54	68	57	26	18	15	17	-19.2	13.3	-15.2
PEDIATRICS	183	215	152	131	138	149	154	-3.4	3.4	-2.4
PHARMACEUTICAL SCIENCES	2,245	2,217	2,515	2,487	2,496	2,616	2,551	2.6	-2.5	1.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,832	4,473	4,642	6,428	7,103	7,195	6,757	11.1	-6.1	8.4
PSYCHIATRY	176	147	150	133	63	106	129	-8.1	21.7	-4.3
PULMONARY DISEASE	7	0	3	1	15	9	14	4.3	55.6	10.4
RADIOLOGY	377	285	310	283	283	277	295	-5.0	6.5	-3.4
SPEECH PATHOLOGY/AUDIOLOGY	7,539	7,725	8,263	8,398	8,735	8,696	8,694	2.4	*	2.1
SURGERY	153	153	129	79	103	108	115	-5.6	6.5	-4.0
VETERINARY SCIENCES	482	531	562	576	511	485	483	.1	-.4	*
CLINICAL MEDICINE, N.E.C.	279	302	491	593	602	741	794	17.7	7.2	16.1
HEALTH RELATED, N.E.C.	3,735	3,923	4,689	5,568	6,466	6,462	6,488	9.6	.4	8.2
PSYCHOLOGY	36,201	37,427	38,597	39,763	40,615	40,669	40,205	2.0	-1.1	1.5
SOCIAL SCIENCES	85,809	85,603	88,265	92,694	93,227	91,180	89,028	1.0	-2.4	.5
AGRICULTURAL ECONOMICS	2,105	2,152	2,198	2,199	2,337	2,258	2,227	1.2	-1.4	.8
ANTHROPOLOGY	6,632	6,622	6,728	6,343	6,322	6,118	5,948	-1.3	-2.8	-1.5
ECONOMICS (EXCEPT AGRICULTURAL)	12,093	11,933	12,086	12,157	13,171	13,344	13,832	1.7	3.7	1.9
GEOGRAPHY	3,609	3,803	3,476	3,112	3,272	3,251	3,241	-1.7	-.3	-1.5
HISTORY AND PHILOSOPHY OF SCIENCE	303	322	300	265	280	248	256	-3.3	3.2	-2.4
LINGUISTICS	2,653	2,744	2,555	2,948	2,883	3,035	2,782	2.3	-8.3	.7
POLITICAL SCIENCE	26,374	26,402	27,703	31,095	31,532	31,017	29,613	2.7	-4.5	1.7
SOCIOLOGY	9,872	9,686	9,259	8,583	8,412	8,147	7,634	-3.2	-6.3	-3.6
SOCIOLOGY/ANTHROPOLOGY	1,556	1,239	1,209	1,100	1,078	1,028	1,065	-6.7	3.6	-5.3
SOCIAL SCIENCES, N.E.C.	20,612	20,700	22,751	24,892	23,940	22,734	22,430	1.6	-1.3	1.2

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-2. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-82 1/

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	337,526	344,119	358,323	373,198	383,100	391,660	399,682	2.5	2.0	2.4
NEW ENGLAND	24,265	25,060	26,379	28,879	30,887	30,518	31,584	3.9	3.5	3.8
CONNECTICUT	4,866	5,090	5,476	6,392	6,781	6,650	7,261	5.3	9.2	5.9
MAINE	446	512	469	475	467	395	416	-2.0	5.3	-1.0
MASSACHUSETTS	15,278	15,888	16,792	18,284	19,864	20,263	20,506	4.8	1.2	4.3
NEW HAMPSHIRE	731	743	775	744	819	771	839	.9	8.8	2.0
RHODE ISLAND	1,880	1,746	1,753	1,870	1,823	1,868	1,922	-.1	2.9	.3
VERMONT	1,064	1,081	1,114	1,114	1,133	571	640	-9.9	12.1	-7.0
MIDDLE ATLANTIC	63,693	62,201	64,924	65,951	68,094	72,904	73,202	2.3	.4	2.0
NEW JERSEY	11,049	10,227	10,280	10,316	10,242	10,461	10,227	-.9	-2.2	-1.1
NEW YORK	38,207	36,031	38,554	39,268	40,054	43,194	43,645	2.1	1.0	1.9
PENNSYLVANIA	14,437	15,943	16,090	16,367	17,798	19,249	19,330	4.9	.4	4.3
EAST NORTH CENTRAL	62,023	62,032	62,894	64,162	66,353	66,306	67,805	1.1	2.3	1.3
ILLINOIS	17,574	17,384	18,056	18,905	19,569	19,472	19,806	1.7	1.7	1.7
INDIANA	7,263	7,559	7,677	7,494	7,735	8,091	8,399	1.8	3.8	2.1
MICHIGAN	13,333	12,989	13,067	13,476	13,352	12,838	13,188	-.6	2.7	-.2
OHIO	14,810	15,466	15,650	16,127	16,893	17,069	17,405	2.4	2.0	2.3
WISCONSIN	9,043	8,634	8,444	8,160	8,804	8,836	9,007	-.4	1.9	-.1
WEST NORTH CENTRAL	22,705	23,536	24,144	24,698	25,649	25,293	25,864	1.8	2.3	1.9
IOWA	3,900	4,251	4,281	4,611	4,696	4,536	4,805	2.5	5.9	3.0
KANSAS	4,224	4,449	4,758	4,854	5,038	4,930	4,813	2.6	-2.4	1.9
MINNESOTA	5,658	5,361	5,186	5,619	5,686	5,702	5,754	.1	.9	.2
MISSOURI	6,152	6,414	6,397	6,102	6,462	6,202	6,520	.1	5.1	.8
NEBRASKA	1,478	1,739	2,126	2,122	2,159	2,338	2,294	7.9	-1.9	6.5
NORTH DAKOTA	742	809	836	776	907	913	946	3.5	3.6	3.5
SOUTH DAKOTA	551	513	560	614	701	672	732	3.4	8.9	4.1
SOUTH ATLANTIC	46,049	47,746	49,743	53,420	54,322	56,487	57,318	3.5	1.5	3.2
DELAWARE	908	902	884	1,031	1,084	1,135	1,173	3.8	3.3	3.7
DISTRICT OF COLUMBIA	7,410	7,704	9,149	9,153	8,925	9,749	8,793	4.7	-9.8	2.5
FLORIDA	8,582	9,060	9,016	10,458	10,799	11,320	11,771	4.7	4.0	4.6
GEORGIA	5,405	5,509	5,504	5,802	6,103	6,203	6,399	2.3	3.2	2.4
MARYLAND	6,757	6,645	6,696	7,568	7,017	7,373	7,404	1.5	.4	1.3
NORTH CAROLINA	6,426	6,448	6,660	7,093	7,380	7,310	7,859	2.2	7.5	2.9
SOUTH CAROLINA	2,675	2,851	2,945	2,930	2,886	2,972	3,115	1.8	4.8	2.2
VIRGINIA	5,721	6,279	6,510	7,029	7,419	7,474	7,559	4.6	1.1	4.1
WEST VIRGINIA	2,165	2,348	2,379	2,356	2,709	2,951	3,245	5.3	10.0	6.0
EAST SOUTH CENTRAL	12,837	13,809	14,667	15,535	15,032	14,810	15,118	2.4	2.1	2.4
ALABAMA	2,602	3,097	3,530	4,058	3,847	3,778	3,901	6.4	3.3	6.0
KENTUCKY	2,704	2,766	3,065	3,253	3,212	3,369	3,465	3.7	2.8	3.6
MISSISSIPPI	1,996	2,173	2,190	2,185	2,130	2,052	2,183	.5	6.4	1.3
TENNESSEE	5,535	5,773	5,882	6,039	5,843	5,611	5,569	.2	-.7	.1
WEST SOUTH CENTRAL	26,451	28,104	30,454	31,849	32,487	32,770	35,417	3.6	8.1	4.3
ARKANSAS	1,108	1,346	1,391	1,488	1,495	1,642	1,779	6.8	8.3	7.0
LOUISIANA	3,126	3,242	3,431	3,807	3,874	4,299	4,574	5.5	6.4	5.6
OKLAHOMA	3,508	3,400	3,804	3,865	4,004	3,590	3,832	.4	6.7	1.3
TEXAS	18,709	20,116	21,828	22,689	23,114	23,239	25,232	3.7	8.6	4.4
MOUNTAIN	20,737	20,294	20,339	21,106	21,639	22,064	23,566	1.0	6.8	1.8
ARIZONA	4,791	4,707	4,729	5,027	5,228	5,593	6,474	2.6	15.8	4.4
COLORADO	7,715	7,155	6,839	6,916	6,928	6,934	6,968	-1.8	.5	-1.4
IDAHO	841	975	1,192	951	968	913	939	1.4	2.8	1.6
MONTANA	774	799	784	786	871	856	1,035	1.7	20.9	4.2
NEVADA	616	698	718	686	639	678	600	1.6	-11.5	-.4
NEW MEXICO	2,101	2,051	2,033	2,423	2,463	2,623	2,624	3.8	*	3.2
UTAH	3,218	3,214	3,369	3,666	3,882	3,737	4,124	2.5	10.4	3.6
WYOMING	681	695	675	651	660	730	802	1.2	9.9	2.4
PACIFIC	57,300	59,901	63,102	66,018	66,633	68,491	67,665	3.0	-1.2	2.4
ALASKA	220	287	434	456	492	541	564	16.2	4.3	14.4
CALIFORNIA	47,241	48,806	51,273	53,541	53,637	55,818	55,180	2.8	-1.1	2.2
HAWAII	1,484	1,496	1,543	1,453	2,004	2,012	2,053	5.2	2.0	4.7
OREGON	2,980	3,144	3,276	3,429	3,386	3,424	3,425	2.3	*	2.0
WASHINGTON	5,375	6,168	6,576	7,139	7,114	6,696	6,443	3.7	-3.8	2.6
OUTLYING AREAS	1,466	1,436	1,677	1,580	2,004	2,017	2,143	5.5	6.2	5.6

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-3. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	226,656	230,848	236,164	242,379	249,159	253,017	255,959	1.9	1.2	1.8
ENGINEERING	37,813	37,167	37,898	40,749	43,426	46,498	50,576	3.5	8.8	4.2
AEROSPACE	1,245	1,165	1,187	1,152	1,327	1,483	1,522	3.0	2.6	2.9
AGRICULTURAL	501	529	620	645	631	672	739	5.0	10.0	5.7
BIOMEDICAL	797	757	715	846	805	867	931	1.4	7.4	2.2
CHEMICAL	3,515	3,691	3,873	4,218	4,490	4,989	5,608	6.0	12.4	6.9
CIVIL	7,363	6,846	7,429	8,068	8,396	9,203	9,809	3.8	6.6	4.2
ELECTRICAL	8,278	8,147	8,528	9,039	9,963	10,450	11,533	4.0	10.4	4.9
ENGINEERING SCIENCE	1,156	1,186	1,194	1,137	1,236	1,290	1,364	1.8	5.7	2.4
INDUSTRIAL	4,152	3,710	3,555	3,961	3,934	3,830	4,057	-1.3	5.9	-.3
MECHANICAL	4,931	4,980	4,944	5,514	5,928	6,517	7,364	4.8	13.0	5.9
METALLURGICAL/MATERIALS	1,787	1,860	1,951	2,135	2,254	2,454	2,478	5.4	1.0	4.8
MINING	344	411	365	298	325	389	373	2.1	-4.1	1.2
NUCLEAR	1,261	1,222	1,159	1,075	1,043	1,032	1,042	-3.3	1.0	-2.7
PETROLEUM	228	323	301	337	373	393	476	9.5	21.1	11.1
ENGINEERING, N.E.C.	2,255	2,340	2,077	2,324	2,721	2,929	3,280	4.5	12.0	5.5
PHYSICAL SCIENCES	21,916	22,253	22,508	22,525	22,915	23,306	24,071	1.0	3.3	1.3
ASTRONOMY	659	621	599	600	593	565	590	-2.5	4.4	-1.6
CHEMISTRY	12,416	12,816	13,131	13,361	13,580	13,719	14,308	1.7	4.3	2.0
PHYSICS	8,694	8,689	8,647	8,471	8,650	8,932	9,080	.5	1.7	.6
PHYSICAL SCIENCES, N.E.C.	147	127	131	93	92	90	93	-7.9	3.3	-6.3
ENVIRONMENTAL SCIENCES	9,677	10,070	10,375	10,584	10,816	10,963	11,331	2.1	3.4	2.3
ATMOSPHERIC SCIENCES	832	822	811	779	789	772	813	-1.2	5.3	-.3
GEOSCIENCES	5,802	6,205	6,402	6,693	6,932	6,944	7,455	3.0	7.4	3.6
OCEANOGRAPHY	1,441	1,503	1,540	1,511	1,568	1,622	1,593	2.0	-1.8	1.4
ENVIRONMENTAL SCIENCES, N.E.C.	1,602	1,540	1,622	1,601	1,527	1,625	1,470	.2	-9.5	-1.2
MATHEMATICAL/COMPUTER SCIENCES	15,168	15,661	14,934	15,489	16,456	17,581	20,050	2.5	14.0	4.1
COMPUTER SCIENCE	4,473	4,833	4,699	5,935	6,669	7,559	9,365	9.1	23.9	11.1
MATHEMATICS AND APPLIED MATHEMATICS	9,241	9,331	8,753	8,136	8,276	8,481	9,108	-1.4	7.4	-.2
STATISTICS	1,454	1,497	1,482	1,418	1,511	1,541	1,577	1.0	2.3	1.2
LIFE SCIENCES	63,513	66,342	68,983	71,252	72,491	72,341	70,676	2.2	-2.3	1.5
AGRICULTURAL SCIENCES	8,758	9,330	9,586	9,838	10,026	10,114	10,050	2.4	-.6	2.0
BIOLOGICAL SCIENCES	37,047	38,013	38,499	38,167	37,877	37,523	37,024	-.2	-1.3	*
ANATOMY	1,019	1,073	1,081	1,074	1,021	994	969	-.4	-2.5	-.7
BIOCHEMISTRY	3,481	3,552	3,626	3,661	3,674	3,699	3,820	1.0	3.3	1.3
BIOLOGY	10,703	11,208	10,900	10,469	9,938	9,618	9,192	-1.8	-4.4	-2.2
BIOMETRY/EPIDEMIOLOGY	767	763	899	971	1,049	1,003	923	4.6	-8.0	2.7
BIOPHYSICS	606	573	553	498	476	457	425	-4.6	-7.0	-4.9
BOTANY	3,071	3,332	3,423	3,216	3,145	3,019	3,131	-.3	3.7	.3
CELL BIOLOGY	620	572	630	723	816	881	1,029	6.0	16.8	7.5
ECOLOGY	728	789	927	829	947	925	892	4.1	-3.6	2.9
ENTOMOLOGY/PARASITOLOGY	1,382	1,416	1,389	1,463	1,525	1,452	1,340	.8	-7.7	-.4
GENETICS	778	793	919	855	869	858	907	1.6	5.7	2.2
MICROBIOLOGY	3,587	3,677	3,788	3,537	3,666	3,553	3,665	-.2	3.2	.3
NUTRITION	2,405	2,554	2,855	3,020	3,012	3,172	3,114	4.7	-1.8	3.8
PATHOLOGY	1,135	1,084	1,058	1,234	1,240	1,244	1,087	1.5	-12.6	-.6
PHARMACOLOGY	1,501	1,589	1,666	1,853	1,886	1,911	1,946	4.1	1.8	3.8
PHYSIOLOGY	2,058	1,965	1,915	1,887	1,850	1,919	1,808	-1.2	-5.8	-1.8
ZOOLOGY	3,072	2,883	2,631	2,434	2,290	2,268	2,155	-4.9	-5.0	-4.9
BIOSCIENCES, N.E.C.	134	190	239	443	473	550	621	26.5	12.9	24.5
HEALTH SCIENCES	17,708	18,999	20,898	23,247	24,588	24,704	23,602	5.7	-4.5	4.2
ANESTHESIOLOGY	55	5	3	18	13	16	21	-18.6	31.3	-12.9
CANCER/ONCOLOGY	55	42	51	45	44	44	55	-3.7	25.0	.0
CARDIOLOGY	22	0	3	3	35	28	28	4.1	.0	3.5
DENTISTRY	938	909	952	1,058	989	871	808	-1.2	-7.2	-2.1
ENDOCRINOLOGY	42	33	31	43	48	46	51	1.5	10.9	2.8
GASTROENTEROLOGY	11	8	8	0	0	3	7	-19.5	133.3	-6.3
HEMATOLOGY	3	3	7	14	8	9	6	20.1	-33.3	10.4
NEUROLOGY	316	291	307	347	349	302	325	-.8	7.6	.4
NURSING	2,966	4,027	5,584	6,336	6,483	7,137	6,662	15.8	-6.7	12.3
OBSTETRICS/GYNECOLOGY	51	52	25	33	5	10	20	-23.8	100.0	-12.5
OPHTHALMOLOGY	25	8	9	5	15	19	19	-4.5	.0	-3.8
OTORHINOLARYNGOLOGY	50	64	56	24	18	15	16	-18.2	6.7	-15.0
PEDIATRICS	156	143	112	119	127	145	144	-1.2	-.7	-1.1
PHARMACEUTICAL SCIENCES	1,480	1,422	1,592	1,626	1,660	1,693	1,709	2.3	.9	2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,038	3,294	3,116	4,326	4,538	4,466	4,051	6.6	-9.3	4.2
PSYCHIATRY	122	114	127	120	61	57	72	-11.9	26.3	-7.3
PULMONARY DISEASE	7	0	3	1	15	9	12	4.3	33.3	8.0
RADIOLOGY	320	270	269	220	233	237	211	-4.9	-11.0	-5.8
SPEECH PATHOLOGY/AUDIOLOGY	5,174	5,342	5,427	5,236	5,663	5,474	5,449	.9	-.5	.7
SURGERY	120	116	89	60	79	74	90	-7.7	21.6	-4.0
VETERINARY SCIENCES	391	428	451	468	394	376	390	-.6	3.7	*
CLINICAL MEDICINE, N.E.C.	245	193	265	272	352	298	367	3.3	23.2	5.9
HEALTH RELATED, N.E.C.	2,121	2,235	2,411	2,875	3,459	3,375	3,089	8.0	-8.5	5.5
PSYCHOLOGY	24,109	25,620	25,683	25,846	26,671	26,703	25,883	1.7	-3.1	1.0
SOCIAL SCIENCES	54,460	53,735	55,783	55,934	56,384	55,625	53,372	.4	-4.1	-.3
AGRICULTURAL ECONOMICS	1,891	1,933	1,958	1,948	2,062	2,037	1,950	1.2	-4.3	.4
ANTHROPOLOGY	5,015	5,035	5,092	4,591	4,616	4,323	4,105	-2.4	-5.0	-2.8
ECONOMICS (EXCEPT AGRICULTURAL)	8,369	8,178	8,393	8,375	9,292	9,387	9,548	1.9	1.7	1.9
GEOGRAPHY	2,415	2,487	2,312	2,107	2,294	2,288	2,201	-.9	-3.8	-1.3
HISTORY AND PHILOSOPHY OF SCIENCE	259	270	257	234	241	217	223	-2.9	2.8	-2.1
LINGUISTICS	2,030	2,130	1,862	2,191	2,177	2,181	2,139	1.2	-1.9	.7
POLITICAL SCIENCE	13,629	12,938	13,658	14,076	13,601	14,312	13,681	.8	-4.4	.1
SOCIOLOGY	6,651	6,729	6,385	5,884	5,886	5,613	5,062	-2.8	-9.8	-3.8
SOCIOLOGY/ANTHROPOLOGY	1,049	732	758	633	610	560	647	-9.9	15.5	-6.7
SOCIAL SCIENCES, N.E.C.	13,152	13,303	15,108	15,895	15,605	14,707	13,816	1.9	-6.1	.7

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-4. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	110,870	113,271	122,159	130,819	133,941	138,643	143,723	3.8	3.7	3.8
ENGINEERING	30,547	30,784	32,485	33,034	33,488	36,196	36,212	2.9	*	2.5
AEROSPACE	425	312	331	329	410	400	419	-1.0	4.7	-.2
AGRICULTURAL	87	110	89	95	111	130	136	6.9	4.6	6.6
BIOMEDICAL	129	189	185	205	206	190	185	6.7	-2.6	5.3
CHEMICAL	1,519	1,514	1,328	1,387	1,525	1,507	1,581	-.1	4.9	.6
CIVIL	5,197	5,021	5,322	5,272	5,255	5,413	4,871	.7	-10.0	-.9
ELECTRICAL	8,042	7,779	8,878	8,750	9,264	9,743	10,484	3.2	7.6	3.9
ENGINEERING SCIENCE	590	623	630	647	683	790	922	5.0	16.7	6.6
INDUSTRIAL	7,511	8,029	7,923	8,023	7,469	8,207	7,707	1.5	-6.1	.4
MECHANICAL	3,670	3,394	3,839	3,823	4,047	4,196	4,204	2.3	.2	2.0
METALLURGICAL/MATERIALS	565	515	608	621	656	671	646	2.9	-3.7	1.9
MINING	68	104	87	91	88	73	76	1.2	4.1	1.6
NUCLEAR	375	378	332	243	198	251	259	-6.5	3.2	-5.1
PETROLEUM	74	53	78	87	130	128	110	9.6	-14.1	5.8
ENGINEERING, N.E.C.	2,295	2,763	2,855	3,461	3,446	4,497	4,613	11.9	2.6	10.5
PHYSICAL SCIENCES	4,394	4,375	4,349	4,164	4,034	4,074	4,134	-1.3	1.5	-.9
ASTRONOMY	52	60	45	38	35	32	42	-7.8	31.3	-3.0
CHEMISTRY	2,871	2,835	2,889	2,740	2,642	2,628	2,711	-1.5	3.2	-.8
PHYSICS	1,374	1,378	1,284	1,225	1,245	1,213	1,226	-2.1	1.1	-1.6
PHYSICAL SCIENCES, N.E.C.	97	102	131	161	112	201	155	12.9	-22.9	6.9
ENVIRONMENTAL SCIENCES	2,612	2,739	3,012	3,001	3,078	3,231	3,585	3.6	11.0	4.6
ATMOSPHERIC SCIENCES	105	108	118	113	134	142	121	5.2	-14.8	2.0
GEOSCIENCES	1,402	1,429	1,559	1,738	1,634	1,765	2,071	3.9	17.3	5.7
OCEANOGRAPHY	296	272	417	356	424	460	498	7.6	8.3	7.7
ENVIRONMENTAL SCIENCES, N.E.C.	809	930	918	794	886	864	895	1.1	3.6	1.5
MATHEMATICAL/COMPUTER SCIENCES	10,165	10,007	10,188	11,218	12,433	14,725	16,971	6.4	15.3	7.6
COMPUTER SCIENCE	3,942	4,148	4,762	6,175	7,256	9,293	10,901	15.4	17.3	15.6
MATHEMATICS AND APPLIED MATHEMATICS	5,693	5,324	4,904	4,512	4,653	4,996	5,599	-2.2	12.1	-.2
STATISTICS	530	535	522	531	524	436	471	-3.2	8.0	-1.7
LIFE SCIENCES	19,711	21,691	26,729	28,725	30,121	30,896	32,842	7.8	6.3	7.6
AGRICULTURAL SCIENCES	1,820	1,834	1,942	2,287	2,300	2,038	2,467	1.9	21.1	4.4
BIOLOGICAL SCIENCES	9,530	10,034	11,149	10,457	10,109	9,423	9,528	-.2	1.1	*
ANATOMY	101	90	117	92	91	108	144	1.1	33.3	5.2
BIOCHEMISTRY	375	332	315	368	303	293	279	-4.0	-4.8	-4.1
BIOLOGY	5,633	5,915	6,319	5,552	5,293	4,817	4,456	-2.6	-7.5	-3.3
BIOMETRY/EPIDEMIOLOGY	104	121	171	162	216	185	249	10.1	34.6	13.3
BIOPHYSICS	92	21	17	27	9	6	17	-36.6	183.3	-21.4
BOTANY	430	447	415	354	406	431	462	*	7.2	1.0
CELL BIOLOGY	31	39	41	25	25	22	26	-5.6	18.2	-2.5
ECOLOGY	61	96	93	188	184	131	111	13.6	-15.3	8.9
ENTOMOLOGY/PARASITOLOGY	192	179	213	234	197	212	200	1.7	-5.7	.6
GENETICS	89	90	87	95	79	64	64	-5.3	.0	-4.6
MICROBIOLOGY	579	647	747	653	558	560	622	-.6	11.1	1.0
NUTRITION	437	583	961	900	1,079	1,155	1,223	17.6	5.9	15.8
PATHOLOGY	407	528	616	616	649	488	619	3.1	26.8	6.2
PHARMACOLOGY	101	116	127	151	129	110	144	1.4	30.9	5.2
PHYSIOLOGY	243	245	194	299	247	217	253	-1.9	16.6	.6
ZOOLOGY	471	420	440	466	396	377	367	-3.6	-2.7	-3.5
BIOSCIENCES, N.E.C.	184	165	276	275	248	247	292	5.0	18.2	6.8
HEALTH SCIENCES	8,361	9,823	13,638	15,981	17,712	19,435	20,847	15.1	7.3	13.9
ANESTHESIOLOGY	0	0	2	2	4	4	20	**	400.0	**
CANCER/ONCOLOGY	4	5	0	2	2	2	2	-10.9	.0	-9.4
CARDIOLOGY	1	2	2	0	3	8	31	41.4	287.5	63.3
DENTISTRY	160	145	195	128	144	201	122	3.9	-39.3	-3.8
ENDOCRINOLOGY	0	3	6	6	5	5	3	**	-40.0	**
GASTROENTEROLOGY	4	0	0	0	0	1	0	-20.6	-100.0	-100.0
HEMATOLOGY	0	1	11	6	8	0	1	**	**	**
NEUROLOGY	6	9	9	15	16	2	7	-16.7	250.0	2.2
NURSING	2,341	3,228	5,359	6,460	7,394	8,566	9,763	24.1	14.0	22.6
OBSTETRICS/GYNECOLOGY	2	7	2	3	1	3	4	7.0	33.3	10.4
OPHTHALMOLOGY	5	5	7	1	1	3	3	-8.2	.0	-7.0
OTORHINOLARYNGOLOGY	4	4	1	2	0	0	1	-100.0	**	-18.0
PEDIATRICS	27	72	40	12	11	4	10	-27.3	150.0	-13.2
PHARMACEUTICAL SCIENCES	765	795	923	861	836	923	842	3.2	-8.8	1.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	794	1,179	1,526	2,104	2,565	2,729	2,706	22.8	-.8	19.1
PSYCHIATRY	54	33	23	13	2	49	57	-1.6	16.3	.8
PULMONARY DISEASE	0	0	0	0	0	0	2	**	**	**
RADIOLOGY	57	15	41	63	50	40	84	-5.7	110.0	5.7
SPEECH PATHOLOGY/AUDIOLOGY	2,365	2,383	2,836	3,162	3,072	3,222	3,245	5.3	.7	4.6
SURGERY	33	37	40	19	24	34	25	.5	-26.5	-3.9
VETERINARY SCIENCES	91	103	111	108	117	109	93	3.1	-14.7	.3
CLINICAL MEDICINE, N.E.C.	34	109	226	321	450	443	427	53.4	-3.6	43.5
HEALTH RELATED, N.E.C.	1,614	1,688	2,278	2,693	3,007	3,087	3,399	11.4	10.1	11.2
PSYCHOLOGY	12,092	11,807	12,914	13,917	13,944	13,966	14,322	2.4	2.5	2.4
SOCIAL SCIENCES	31,349	31,868	32,482	36,760	36,843	35,555	35,656	2.1	.3	1.9
AGRICULTURAL ECONOMICS	214	219	240	251	275	221	277	.5	25.3	3.8
ANTHROPOLOGY	1,617	1,587	1,636	1,752	1,706	1,795	1,843	1.8	2.7	1.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,724	3,755	3,693	3,782	3,879	3,957	4,284	1.0	8.3	2.0
GEOGRAPHY	1,194	1,316	1,164	1,005	978	963	1,040	-3.5	8.0	-2.0
HISTORY AND PHILOSOPHY OF SCIENCE	44	52	43	31	39	31	33	-5.7	6.5	-4.0
LINGUISTICS	623	614	693	757	706	854	643	5.4	-24.7	.5
POLITICAL SCIENCE	12,745	13,464	14,045	17,019	17,931	16,705	15,932	4.6	-4.6	3.2
SOCIOLOGY	3,221	2,957	2,874	2,699	2,526	2,534	2,572	-3.9	1.5	-3.2
SOCIOLOGY/ANTHROPOLOGY	507	507	451	467	468	468	418	-1.3	-10.7	-2.7
SOCIAL SCIENCES, N.E.C.	7,460	7,397	7,643	8,997	8,335	8,027	8,614	1.2	7.3	2.1

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-5. — MALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-82 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	269,956	250,179	246,953	249,328	249,486	252,836	-1.6	1.3	-1.1
ENGINEERING	65,685	66,348	67,542	70,081	74,308	77,368	2.5	4.1	2.8
AEROSPACE	1,454	1,485	1,432	1,663	1,816	1,831	4.5	.8	3.9
AGRICULTURAL	622	680	708	711	758	818	4.0	7.9	4.7
BIOMEDICAL	891	817	919	845	877	897	-.3	2.3	.1
CHEMICAL	4,956	4,827	4,991	5,336	5,718	6,288	2.9	10.0	4.0
CIVIL	11,336	11,785	11,863	12,070	12,887	12,762	2.6	-1.0	2.0
ELECTRICAL	15,615	16,696	16,856	18,244	18,917	20,466	3.9	8.2	4.6
ENGINEERING SCIENCE	1,729	1,724	1,631	1,751	1,861	1,995	1.5	7.2	2.4
INDUSTRIAL	11,317	10,551	10,545	9,792	10,031	9,697	-2.4	-3.3	-2.5
MECHANICAL	8,243	8,510	8,868	9,441	10,080	10,846	4.1	7.6	4.7
METALLURGICAL/MATERIALS	2,265	2,376	2,468	2,607	2,735	2,704	3.8	-1.1	3.0
MINING	499	434	363	385	423	409	-3.3	-3.3	-3.3
NUCLEAR	1,550	1,434	1,233	1,160	1,199	1,215	-5.0	1.3	-4.0
PETROLEUM	367	365	393	462	469	544	5.0	16.0	6.8
ENGINEERING, N.E.C.	4,841	4,664	5,272	5,614	6,537	6,896	6.2	5.5	6.1
PHYSICAL SCIENCES	23,333	22,817	22,194	22,350	22,363	22,783	-.8	1.9	-.4
ASTRONOMY	612	564	559	546	506	531	-3.7	4.9	-2.3
CHEMISTRY	13,167	12,936	12,683	12,718	12,544	12,859	-1.0	2.5	-.4
PHYSICS	9,387	9,127	8,810	8,948	9,129	9,239	-.6	1.2	-.3
PHYSICAL SCIENCES, N.E.C.	167	190	142	138	184	154	2.0	-16.3	-1.3
ENVIRONMENTAL SCIENCES	10,999	11,088	10,696	10,704	10,742	11,179	-.5	4.1	.3
ATMOSPHERIC SCIENCES	863	854	791	805	783	796	-1.9	1.7	-1.3
GEOSCIENCES	6,572	6,624	6,667	6,666	6,679	7,255	.3	8.6	1.7
OCEANOGRAPHY	1,505	1,602	1,454	1,505	1,529	1,514	.3	-1.0	.1
ENVIRONMENTAL SCIENCES, N.E.C.	2,059	2,008	1,784	1,728	1,751	1,614	-3.2	-7.8	-4.0
MATHEMATICAL/COMPUTER SCIENCES	21,654	19,457	20,367	21,727	23,616	26,592	1.7	12.6	3.5
COMPUTER SCIENCE	8,035	7,810	9,705	10,774	12,550	14,813	9.3	18.0	10.7
MATHEMATICS AND APPLIED MATHEMATICS	11,979	10,141	9,216	9,461	9,619	10,313	-4.3	7.2	-2.5
STATISTICS	1,640	1,506	1,446	1,492	1,447	1,466	-2.5	1.3	-1.9
LIFE SCIENCES	60,571	53,828	51,503	51,115	49,410	47,990	-4.0	-2.9	-3.8
AGRICULTURAL SCIENCES	9,648	9,476	9,526	9,508	9,411	9,470	-.5	.6	-.3
BIOLOGICAL SCIENCES	34,945	32,634	30,444	29,614	28,117	27,098	-4.3	-3.6	-4.2
ANATOMY	835	806	742	694	702	692	-3.4	-1.4	-3.1
BIOCHEMISTRY	2,916	2,820	2,771	2,688	2,654	2,639	-1.9	-.6	-1.6
BIOLOGY	12,612	11,480	10,138	9,466	8,772	8,009	-7.0	-8.7	-7.3
BIOMETRY/EPIDEMIOLOGY	525	598	596	650	659	563	4.7	-14.6	1.2
BIOPHYSICS	490	459	428	380	338	332	-7.2	-1.8	-6.3
BOTANY	2,788	2,723	2,439	2,374	2,247	2,293	-4.2	2.0	-3.2
CELL BIOLOGY	418	441	465	540	580	667	6.8	15.0	8.1
ECOLOGY	673	752	718	796	713	663	1.2	-7.0	-.2
ENTOMOLOGY/PARASITOLOGY	1,389	1,325	1,353	1,368	1,308	1,158	-1.2	-11.5	-3.0
GENETICS	515	538	497	484	461	449	-2.2	-2.6	-2.3
MICROBIOLOGY	2,987	2,867	2,503	2,473	2,338	2,392	-4.8	2.3	-3.6
NUTRITION	1,772	1,435	1,351	1,423	1,385	1,366	-4.8	-1.4	-4.2
PATHOLOGY	1,154	1,009	1,130	1,079	984	951	-3.1	-3.4	-3.2
PHARMACOLOGY	1,311	1,324	1,419	1,361	1,327	1,361	.2	2.6	.6
PHYSIOLOGY	1,734	1,582	1,519	1,461	1,445	1,370	-3.6	-5.2	-3.9
ZOOLOGY	2,553	2,153	1,962	1,764	1,733	1,662	-7.5	-4.1	-6.9
BIOSCIENCES, N.E.C.	273	322	413	413	471	531	11.5	12.7	11.7
HEALTH SCIENCES	15,978	11,718	11,533	12,193	11,882	11,422	-5.8	-3.9	-5.4
ANESTHESIOLOGY	3	4	9	3	4	13	5.9	225.0	27.7
CANCER/ONCOLOGY	38	40	37	36	46	41	3.9	-10.9	1.3
CARDIOLOGY	2	4	3	27	14	28	56.9	47.4	55.2
DENTISTRY	949	976	956	892	805	751	-3.2	-6.7	-3.8
ENDOCRINOLOGY	25	26	30	29	25	23	.0	-8.0	-1.4
GASTROENTEROLOGY	8	8	0	0	3	6	-17.8	100.0	-4.7
HEMATOLOGY	2	7	10	4	2	1	.0	-50.0	-10.9
NEUROLOGY	214	222	243	251	204	218	-1.0	6.9	.3
NURSING	3,006	426	578	649	730	725	-24.7	-.7	-21.1
OBSTETRICS/GYNECOLOGY	45	17	25	4	5	10	-35.6	100.0	-22.2
OPHTHALMOLOGY	11	12	4	9	16	17	7.8	6.3	7.5
OTORHINOLARYNGOLOGY	58	36	23	16	11	14	-28.3	27.3	-21.1
PEDIATRICS	127	48	44	32	46	71	-18.4	54.3	-9.2
PHARMACEUTICAL SCIENCES	1,916	1,797	1,752	1,785	1,844	1,776	-.8	-3.7	-1.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,926	2,529	3,090	3,415	3,381	2,982	2.9	-11.8	.3
PSYCHIATRY	98	87	56	24	58	63	-10.0	8.6	-7.1
PULMONARY DISEASE	0	3	0	13	5	9	**	80.0	**
RADIOLOGY	227	246	230	229	217	230	-.9	6.0	.2
SPEECH PATHOLOGY/AUDIOLOGY	3,102	1,952	1,464	1,356	1,217	1,220	-17.1	.2	-14.4
SURGERY	135	111	74	85	91	99	-7.6	8.8	-5.0
VETERINARY SCIENCES	421	414	408	332	307	305	-6.1	-.7	-5.2
CLINICAL MEDICINE, N.E.C.	234	287	260	308	312	357	5.9	14.4	7.3
HEALTH RELATED, N.E.C.	2,431	2,466	2,237	2,694	2,534	2,463	.8	-2.8	.2
PSYCHOLOGY	23,823	20,505	19,416	19,023	17,890	16,991	-5.6	-5.0	-5.5
SOCIAL SCIENCES	63,891	56,136	55,235	54,328	51,157	49,933	-4.3	-2.4	-4.0
AGRICULTURAL ECONOMICS	1,957	1,909	1,807	1,868	1,788	1,773	-1.8	-.8	-1.6
ANTHROPOLOGY	4,071	3,386	3,099	3,009	2,791	2,677	-7.3	-4.1	-6.7
ECONOMICS (EXCEPT AGRICULTURAL)	10,440	9,769	9,520	10,157	10,139	10,318	-.6	1.8	-.2
GEOGRAPHY	3,090	2,588	2,194	2,318	2,239	2,242	-6.2	.1	-5.2
HISTORY AND PHILOSOPHY OF SCIENCE	253	215	191	189	159	167	-8.9	5.0	-6.7
LINGUISTICS	1,446	1,171	1,299	1,280	1,316	1,177	-1.9	-10.6	-3.4
POLITICAL SCIENCE	22,135	20,216	20,819	20,594	19,386	18,621	-2.6	-3.9	-2.8
SOCIOLOGY	6,545	5,091	4,521	4,235	3,972	3,585	-9.5	-9.7	-9.5
SOCIOLOGY/ANTHROPOLOGY	904	757	551	555	485	512	-11.7	5.6	-9.0
SOCIAL SCIENCES, N.E.C.	13,050	11,034	11,234	10,123	8,882	8,861	-7.4	-.2	-6.2

1/ DATA WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-6. — FEMALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1976-77 AND 1979-82 1/

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	74,163	108,144	126,245	133,772	142,174	146,846	13.9	3.3	12.1
ENGINEERING	2,266	4,035	6,241	6,833	8,386	9,421	29.9	12.3	26.8
AEROSPACE	23	33	49	74	67	110	23.8	64.2	29.8
AGRICULTURAL	17	29	32	31	44	57	20.9	29.5	22.3
BIOMEDICAL	55	83	132	166	180	219	26.8	21.7	25.9
CHEMICAL	249	374	614	679	778	901	25.6	15.8	23.9
CIVIL	531	966	1,477	1,581	1,729	1,918	26.6	10.9	23.9
ELECTRICAL	311	710	933	983	1,276	1,551	32.6	21.6	30.7
ENGINEERING SCIENCE	80	100	153	168	219	291	22.3	32.9	24.0
INDUSTRIAL	422	927	1,439	1,611	2,006	2,067	36.6	3.0	30.3
MECHANICAL	131	273	469	534	633	722	37.0	14.1	32.9
METALLURGICAL/MATERIALS	110	183	288	303	390	420	28.8	7.7	25.0
MINING	16	18	26	28	39	40	19.5	2.6	16.5
NUCLEAR	50	57	85	81	84	86	10.9	2.4	9.5
PETROLEUM	9	14	31	41	52	42	42.0	-19.2	29.3
ENGINEERING, N.E.C.	262	268	513	553	889	997	27.7	12.1	24.9
PHYSICAL SCIENCES	3,295	4,040	4,495	4,599	5,017	5,422	8.8	8.1	8.7
ASTRONOMY	69	80	79	82	91	101	5.7	11.0	6.6
CHEMISTRY	2,484	3,084	3,418	3,504	3,803	4,160	8.9	9.4	9.0
PHYSICS	680	804	886	947	1,016	1,067	8.4	5.0	7.8
PHYSICAL SCIENCES, N.E.C.	62	72	112	66	107	94	11.5	-12.1	7.2
ENVIRONMENTAL SCIENCES	1,810	2,299	2,889	3,190	3,452	3,737	13.8	8.3	12.8
ATMOSPHERIC SCIENCES	67	75	101	118	131	138	14.4	5.3	12.8
GEOSCIENCES	1,062	1,337	1,764	1,900	2,030	2,271	13.8	11.9	13.5
OCEANOGRAPHY	270	355	413	487	553	577	15.4	4.3	13.5
ENVIRONMENTAL SCIENCES, N.E.C.	411	532	611	685	738	751	12.4	1.8	10.6
MATHEMATICAL/COMPUTER SCIENCES	4,014	5,665	6,340	7,162	8,690	10,429	16.7	20.0	17.2
COMPUTER SCIENCE	946	1,651	2,405	3,151	4,302	5,453	35.4	26.8	33.9
MATHEMATICS AND APPLIED MATHEMATICS	2,676	3,516	3,432	3,468	3,858	4,394	7.6	13.9	8.6
STATISTICS	392	498	503	543	530	582	6.2	9.8	6.8
LIFE SCIENCES	27,462	41,884	48,474	51,497	53,827	55,528	14.4	3.2	12.5
AGRICULTURAL SCIENCES	1,516	2,052	2,599	2,818	2,741	3,047	12.6	11.2	12.3
BIOLOGICAL SCIENCES	13,102	17,014	18,180	18,572	18,829	19,454	7.5	3.3	6.8
ANATOMY	328	392	424	418	400	421	4.0	5.2	4.2
BIOCHEMISTRY	968	1,121	1,258	1,289	1,338	1,460	6.7	9.1	7.1
BIOLOGY	4,511	5,739	5,883	5,765	5,663	5,639	4.7	-.4	3.8
BIOMETRY/EPIDEMIOLOGY	359	472	537	615	529	609	8.1	15.1	9.2
BIOPHYSICS	104	111	97	105	125	110	3.7	-12.0	.9
BOTANY	991	1,115	1,131	1,177	1,203	1,300	4.0	8.1	4.6
CELL BIOLOGY	193	230	283	301	323	388	10.8	20.1	12.3
ECOLOGY	212	268	299	335	343	340	10.1	-.9	8.2
ENTOMOLOGY/PARASITOLOGY	206	277	344	354	356	382	11.6	7.3	10.8
GENETICS	368	468	453	464	461	522	4.6	13.2	6.0
MICROBIOLOGY	1,337	1,668	1,687	1,751	1,775	1,895	5.8	6.8	6.0
NUTRITION	1,365	2,381	2,569	2,668	2,942	2,971	16.6	1.0	13.8
PATHOLOGY	458	665	720	810	748	755	10.3	.9	8.7
PHARMACOLOGY	394	469	585	654	694	729	12.0	5.0	10.8
PHYSIOLOGY	476	527	667	636	691	691	7.7	.0	6.4
ZOOLOGY	750	918	938	922	912	860	4.0	-5.7	2.3
BIOSCIENCES, N.E.C.	82	193	305	308	326	382	31.8	17.2	29.2
HEALTH SCIENCES	12,844	22,818	27,695	30,107	32,257	33,027	20.2	2.4	17.0
ANESTHESIOLOGY	2	1	11	14	16	28	51.6	75.0	55.2
CANCER/ONCOLOGY	9	11	10	10	0	16	-100.0	**	10.1
CARDIOLOGY	0	1	0	11	17	31	**	82.4	**
DENTISTRY	105	171	230	241	267	179	20.5	-33.0	9.3
ENDOCRINOLOGY	11	11	19	24	26	31	18.8	19.2	18.8
GASTROENTEROLOGY	0	0	0	0	1	1	**	.0	**
HEMATOLOGY	2	11	10	12	7	6	28.5	-14.3	20.1
NEUROLOGY	86	94	119	114	100	114	3.1	14.0	4.8
NURSING	4,249	10,517	12,218	13,228	14,973	15,700	28.6	4.9	24.3
OBSTETRICS/GYNECOLOGY	14	10	11	2	8	14	-10.6	75.0	.0
OPHTHALMOLOGY	2	4	2	7	6	5	24.6	-16.7	16.5
OTORHINOLARYNGOLOGY	10	21	3	2	4	3	-16.7	-25.0	-18.2
PEDIATRICS	88	104	87	106	103	83	3.2	-19.4	-1.0
PHARMACEUTICAL SCIENCES	301	718	735	711	772	775	20.7	.4	17.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,547	2,113	3,338	3,688	3,814	3,775	19.8	-1.0	16.0
PSYCHIATRY	49	63	77	39	48	66	-.4	37.5	5.1
PULMONARY DISEASE	0	0	1	2	4	5	**	25.0	**
RADIOLOGY	58	64	53	54	60	65	.7	8.3	1.9
SPEECH PATHOLOGY/AUDIOLOGY	4,623	6,311	6,934	7,379	7,479	7,474	10.1	-.1	8.3
SURGERY	18	18	5	18	17	16	-1.1	-5.9	-1.9
VETERINARY SCIENCES	110	148	168	179	178	178	10.1	.0	8.4
CLINICAL MEDICINE, N.E.C.	68	204	333	494	429	437	44.5	1.9	36.4
HEALTH RELATED, N.E.C.	1,492	2,223	3,331	3,772	3,928	4,025	21.4	2.5	18.0
PSYCHOLOGY	13,604	18,092	20,347	21,592	22,779	23,214	10.9	1.9	9.3
SOCIAL SCIENCES	21,712	32,129	37,459	38,899	40,023	39,095	13.0	-2.3	10.3
AGRICULTURAL ECONOMICS	195	289	392	469	470	454	19.2	-3.4	15.1
ANTHROPOLOGY	2,551	3,342	3,244	3,313	3,327	3,271	5.5	-1.7	4.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,493	2,317	2,637	3,014	3,205	3,514	16.5	9.6	15.3
GEOGRAPHY	713	888	918	954	1,012	999	7.3	-1.3	5.8
HISTORY AND PHILOSOPHY OF SCIENCE	69	85	74	91	89	89	5.2	.0	4.3
LINGUISTICS	1,298	1,384	1,649	1,603	1,719	1,605	5.8	-6.6	3.6
POLITICAL SCIENCE	4,267	7,487	10,276	10,938	11,631	10,992	22.2	-5.5	17.1
SOCIOLOGY	3,141	4,168	4,062	4,177	4,175	4,049	5.9	-3.0	4.3
SOCIOLOGY/ANTHROPOLOGY	335	452	549	523	543	553	10.1	1.8	8.7
SOCIAL SCIENCES, N.E.C.	7,650	11,717	13,658	13,817	13,852	13,569	12.6	-2.0	10.0

1/ DATA WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-7. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	233,810	237,204	244,171	252,621	257,333	261,558	269,903	1.9	3.2	2.1
ENGINEERING	41,025	40,902	41,558	43,252	45,639	48,933	53,294	3.0	8.9	3.8
AEROSPACE	1,196	1,082	1,067	1,037	1,208	1,322	1,332	1.7	.8	1.6
AGRICULTURAL	552	606	673	703	704	758	821	5.4	8.3	5.8
BIOMEDICAL	451	517	453	555	563	598	648	4.8	8.4	5.3
CHEMICAL	3,441	3,437	3,423	3,698	4,011	4,265	4,822	3.6	13.1	4.9
CIVIL	8,477	8,161	8,980	9,322	9,477	9,774	10,040	2.4	2.7	2.4
ELECTRICAL	9,287	9,067	9,744	9,745	10,455	10,977	12,329	2.8	12.3	4.1
ENGINEERING SCIENCE	1,177	1,248	1,155	1,015	1,127	1,239	1,354	.9	9.3	2.0
INDUSTRIAL	4,492	4,468	3,995	4,245	4,394	4,567	4,962	.3	8.6	1.4
MECHANICAL	5,766	5,603	5,539	5,795	6,246	6,812	7,525	2.8	10.5	3.9
METALLURGICAL/MATERIALS	1,415	1,446	1,528	1,686	1,725	1,818	1,850	4.3	1.8	3.9
MINING	330	421	366	306	330	380	377	2.4	-.8	1.9
NUCLEAR	1,128	1,164	1,085	1,000	951	993	1,018	-2.1	2.5	-1.5
PETROLEUM	155	226	228	248	272	271	321	9.8	18.5	11.0
ENGINEERING, N.E.C.	3,158	3,456	3,322	3,897	4,176	5,159	5,895	8.5	14.3	9.3
PHYSICAL SCIENCES	18,324	18,568	18,772	18,727	18,912	19,261	20,119	.8	4.5	1.3
ASTRONOMY	483	452	420	421	421	393	420	-3.4	6.9	-2.0
CHEMISTRY	10,850	11,162	11,400	11,504	11,597	11,681	12,304	1.2	5.3	1.8
PHYSICS	6,786	6,745	6,717	6,627	6,702	6,909	7,147	.3	3.4	.7
PHYSICAL SCIENCES, N.E.C.	205	209	235	175	192	278	248	5.2	-10.8	2.8
ENVIRONMENTAL SCIENCES	10,296	10,816	11,263	11,561	11,797	11,950	12,613	2.5	5.5	2.9
ATMOSPHERIC SCIENCES	858	865	874	845	850	822	836	-.7	1.7	-.4
GEOSCIENCES	5,626	6,039	6,396	6,872	7,019	7,137	7,887	4.0	10.5	4.9
OCEANOGRAPHY	1,503	1,545	1,606	1,655	1,749	1,844	1,798	3.5	-2.5	2.6
ENVIRONMENTAL SCIENCES, N.E.C.	2,309	2,367	2,387	2,189	2,179	2,147	2,092	-1.2	-2.6	-1.4
MATHEMATICAL/COMPUTER SCIENCES	18,260	18,498	17,555	18,204	19,223	20,841	24,172	2.2	16.0	4.1
COMPUTER SCIENCE	5,676	6,211	6,090	7,515	8,501	9,859	11,984	9.6	21.6	11.3
MATHEMATICS AND APPLIED MATHEMATICS	11,070	10,761	9,947	9,206	9,137	9,397	10,514	-2.7	11.9	-.7
STATISTICS	1,514	1,526	1,518	1,483	1,585	1,585	1,674	.8	5.6	1.4
LIFE SCIENCES	65,228	68,775	73,202	76,278	78,011	77,365	77,677	2.9	.4	2.5
AGRICULTURAL SCIENCES	10,297	10,881	11,212	11,785	12,008	11,808	12,181	2.3	3.2	2.4
BIOLOGICAL SCIENCES	35,130	36,107	37,219	36,298	36,003	35,076	34,364	*	-2.0	-.3
ANATOMY	781	820	826	803	727	720	688	-1.3	-4.4	-1.8
BIOCHEMISTRY	2,707	2,737	2,787	2,765	2,704	2,659	2,739	-.3	3.0	-.2
BIOLOGY	11,277	11,976	12,061	11,213	10,767	10,282	9,441	-1.5	-8.2	-2.5
BIOMETRY/EPIDEMIOLOGY	488	444	589	645	750	672	632	5.5	-6.0	3.8
BIOPHYSICS	473	362	341	321	288	273	252	-8.8	-7.7	-8.6
BOTANY	3,250	3,525	3,589	3,296	3,269	3,168	3,314	-.4	4.6	.3
CELL BIOLOGY	364	374	430	477	514	521	568	6.2	9.0	6.6
ECOLOGY	729	818	962	912	1,043	961	930	4.7	-3.2	3.5
ENTOMOLOGY/PARASITOLOGY	1,501	1,532	1,542	1,629	1,664	1,604	1,490	1.1	-7.1	-.1
GENETICS	633	644	731	694	657	643	679	.3	5.6	1.0
MICROBIOLOGY	3,246	3,306	3,393	3,183	3,246	3,086	3,192	-.8	3.4	-.2
NUTRITION	2,298	2,514	3,068	3,137	3,275	3,429	3,386	6.9	-1.3	5.7
PATHOLOGY	1,110	1,019	1,049	1,229	1,303	1,165	1,143	.8	-1.9	.4
PHARMACOLOGY	1,118	1,161	1,185	1,336	1,332	1,355	1,421	3.3	4.9	3.5
PHYSIOLOGY	1,671	1,566	1,487	1,469	1,450	1,480	1,421	-2.0	-4.0	-2.3
ZOOLOGY	3,333	3,112	2,885	2,677	2,484	2,452	2,352	-5.0	-4.1	-4.9
BIOSCIENCES, N.E.C.	151	197	294	512	530	606	716	26.1	18.2	24.9
HEALTH SCIENCES	19,801	21,787	24,771	28,195	30,000	30,481	31,132	7.5	2.1	6.7
ANESTHESIOLOGY	14	5	2	14	13	15	36	1.2	140.0	14.4
CANCER/ONCOLOGY	59	47	49	47	46	46	56	-4.1	21.7	-.7
CARDIOLOGY	20	2	2	1	0	0	0	-100.0	**	-100.0
DENTISTRY	574	631	694	691	716	697	649	3.3	-6.9	1.8
ENDOCRINOLOGY	41	33	32	49	53	51	53	3.7	3.9	3.7
GASTROENTEROLOGY	11	8	8	0	0	3	1	-19.5	-66.7	-29.0
HEMATOLOGY	3	3	1	10	8	6	6	12.2	.0	10.4
NEUROLOGY	177	169	192	216	202	169	178	-.8	5.3	.1
NURSING	4,618	5,777	7,591	9,166	10,086	10,816	11,501	15.2	6.3	13.9
OBSTETRICS/GYNECOLOGY	45	42	17	21	1	2	10	-40.5	400.0	-19.3
OPHTHALMOLOGY	11	7	13	4	11	13	18	2.8	38.5	7.3
OTORHINOLARYNGOLOGY	40	52	31	24	12	11	14	-19.4	27.3	-13.9
PEDIATRICS	161	199	130	66	84	92	99	-8.9	7.6	-6.7
PHARMACEUTICAL SCIENCES	1,484	1,492	1,609	1,596	1,665	1,723	1,726	2.5	.2	2.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,811	3,228	3,282	4,308	4,569	4,562	4,086	8.4	-10.4	5.5
PSYCHIATRY	57	52	69	78	60	72	108	4.0	50.0	9.6
PULMONARY DISEASE	5	0	3	1	7	7	12	5.8	71.4	13.3
RADIOLOGY	263	180	214	220	216	179	211	-6.2	17.9	-3.1
SPEECH PATHOLOGY/AUDIOLOGY	6,183	6,507	6,993	6,997	7,262	7,295	7,461	2.8	2.3	2.7
SURGERY	132	119	96	65	83	68	90	-10.5	32.4	-5.3
VETERINARY SCIENCES	413	451	482	502	445	414	406	*	-1.9	-.2
CLINICAL MEDICINE, N.E.C.	241	258	457	516	548	505	493	13.1	-2.4	10.8
HEALTH RELATED, N.E.C.	2,438	2,525	2,804	3,603	3,913	3,735	3,918	7.4	4.9	7.0
PSYCHOLOGY	23,527	23,398	24,041	23,965	23,760	23,843	23,400	.2	-1.9	-.1
SOCIAL SCIENCES	57,150	56,247	57,780	60,634	59,991	59,365	58,628	.6	-1.2	.4
AGRICULTURAL ECONOMICS	2,016	2,072	2,119	2,099	2,210	2,156	2,131	1.1	-1.2	.8
ANTHROPOLOGY	4,732	4,924	4,990	4,769	4,650	4,442	4,293	-1.0	-3.4	-1.4
ECONOMICS (EXCEPT AGRICULTURAL)	7,911	7,619	7,624	7,532	8,034	8,022	8,477	.2	5.7	1.0
GEOGRAPHY	3,280	3,517	3,200	2,853	2,984	2,975	3,008	-1.6	1.1	-1.2
HISTORY AND PHILOSOPHY OF SCIENCE	150	164	163	148	165	141	148	-1.0	5.0	-.2
LINGUISTICS	1,680	1,712	1,663	1,779	1,806	1,969	1,966	2.7	-.2	2.3
POLITICAL SCIENCE	15,294	15,240	15,747	17,276	17,588	17,696	17,147	2.5	-3.1	1.6
SOCIOLOGY	6,927	6,631	6,404	6,018	5,827	5,672	5,379	-3.3	-5.2	-3.5
SOCIOLOGY/ANTHROPOLOGY	1,213	933	882	761	746	666	679	-9.5	2.0	-8.0
SOCIAL SCIENCES, N.E.C.	13,947	13,435	14,988	17,399	15,981	15,626	15,400	1.9	-1.4	1.4

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-8. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	103,716	106,915	114,152	120,577	125,767	130,102	129,779	3.8	-0.2	3.3
ENGINEERING	27,335	27,049	28,825	30,531	31,275	33,761	33,495	3.6	-.8	2.9
AEROSPACE	474	395	451	444	529	561	609	2.8	8.6	3.6
AGRICULTURAL	36	33	36	37	38	44	54	3.4	22.7	6.0
BIOMEDICAL	475	429	447	496	448	459	468	-.6	2.0	-.2
CHEMICAL	1,593	1,768	1,778	1,907	2,004	2,231	2,367	5.8	6.1	5.8
CIVIL	4,083	3,706	3,771	4,018	4,174	4,842	4,640	2.9	-4.2	1.8
ELECTRICAL	7,033	6,859	7,662	8,044	8,772	9,216	9,688	4.6	5.1	4.7
ENGINEERING SCIENCE	569	561	669	769	792	841	932	6.7	10.8	7.3
INDUSTRIAL	7,171	7,271	7,483	7,739	7,009	7,470	6,802	.7	-8.9	-.8
MECHANICAL	2,835	2,771	3,244	3,542	3,729	3,901	4,043	5.5	3.6	5.2
METALLURGICAL/MATERIALS	937	929	1,031	1,070	1,185	1,307	1,274	5.7	-2.5	4.5
MINING	82	94	86	83	83	82	72	.0	-12.2	-1.8
NUCLEAR	508	436	406	318	290	290	283	-8.9	-2.4	-8.0
PETROLEUM	147	150	151	176	231	250	265	9.3	6.0	8.8
ENGINEERING, N.E.C.	1,392	1,647	1,610	1,888	1,991	2,267	1,998	8.5	-11.9	5.3
PHYSICAL SCIENCES	7,986	8,060	8,085	7,962	8,037	8,119	8,086	.3	-.4	.2
ASTRONOMY	228	229	224	217	207	204	212	-1.8	3.9	-1.0
CHEMISTRY	4,437	4,489	4,620	4,597	4,625	4,666	4,715	.8	1.1	.9
PHYSICS	3,282	3,322	3,214	3,069	3,193	3,236	3,159	-.2	-2.4	-.5
PHYSICAL SCIENCES, N.E.C.	39	20	27	79	12	13	0	-16.7	-100.0	-100.0
ENVIRONMENTAL SCIENCES	1,993	1,993	2,124	2,024	2,097	2,244	2,303	2.0	2.6	2.1
ATMOSPHERIC SCIENCES	79	65	55	47	73	92	98	2.6	6.5	3.1
GEOSCIENCES	1,578	1,595	1,565	1,559	1,547	1,572	1,639	-.1	4.3	.5
OCEANOGRAPHY	234	230	351	212	243	238	293	.3	23.1	3.3
ENVIRONMENTAL SCIENCES, N.E.C.	102	103	153	206	234	342	273	22.3	-20.2	15.1
MATHEMATICAL/COMPUTER SCIENCES	7,073	7,170	7,567	8,503	9,666	11,465	12,849	8.4	12.1	8.9
COMPUTER SCIENCE	2,739	2,770	3,371	4,595	5,424	6,993	8,282	16.9	18.4	17.1
MATHEMATICS AND APPLIED MATHEMATICS	3,864	3,894	3,710	3,442	3,792	4,080	4,193	.9	2.8	1.2
STATISTICS	470	506	486	466	450	392	374	-3.0	-4.6	-3.2
LIFE SCIENCES	17,996	19,258	22,510	23,699	24,601	25,872	25,841	6.2	-.1	5.3
AGRICULTURAL SCIENCES	281	283	316	340	318	344	336	3.4	-2.3	2.6
BIOLOGICAL SCIENCES	11,447	11,940	12,429	12,326	11,983	11,870	12,188	.6	2.7	.9
ANATOMY	339	343	372	363	385	382	425	2.0	11.3	3.3
BIOCHEMISTRY	1,149	1,147	1,154	1,264	1,273	1,333	1,360	2.5	2.0	2.4
BIOLOGY	5,059	5,147	5,158	4,808	4,464	4,153	4,207	-3.2	1.3	-2.6
BIOMETRY/EPIDEMIOLOGY	383	440	481	488	515	516	540	5.1	4.7	5.0
BIOPHYSICS	225	232	229	204	197	190	190	-2.8	.0	-2.4
BOTANY	251	254	249	274	282	282	279	2.0	-1.1	1.5
CELL BIOLOGY	287	237	241	271	327	382	487	4.9	27.5	7.8
ECOLOGY	60	67	58	105	88	95	73	8.0	-23.2	2.8
ENTOMOLOGY/PARASITOLOGY	73	63	60	68	58	60	50	-3.2	-16.7	-5.3
GENETICS	234	239	275	256	291	279	292	3.0	4.7	3.2
MICROBIOLOGY	920	1,018	1,142	1,007	978	1,027	1,095	1.9	6.6	2.5
NUTRITION	544	623	748	783	816	898	951	8.7	5.9	8.3
PATHOLOGY	432	593	625	621	586	567	563	4.6	-.7	3.9
PHARMACOLOGY	484	544	608	668	683	666	669	5.5	.5	4.7
PHYSIOLOGY	630	644	622	717	647	656	640	.7	-2.4	.2
ZOOLOGY	210	191	186	223	202	193	170	-1.4	-11.9	-3.0
BIOSCIENCES, N.E.C.	167	158	221	206	191	191	197	2.3	3.1	2.4
HEALTH SCIENCES	6,268	7,035	9,765	11,033	12,300	13,658	13,317	13.9	-2.5	11.4
ANESTHESIOLOGY	41	0	3	6	4	5	5	-29.6	.0	-26.0
CANCER/ONCOLOGY	0	0	2	0	0	0	1	**	**	**
CARDIOLOGY	3	0	3	2	38	36	59	51.3	63.9	53.0
DENTISTRY	524	423	453	495	417	375	281	-5.4	-25.1	-8.5
ENDOCRINOLOGY	1	3	5	0	0	0	1	-100.0	**	.0
GASTROENTEROLOGY	4	0	0	0	0	1	6	-20.6	500.0	6.0
HEMATOLOGY	0	1	17	10	8	3	1	**	-66.7	**
NEUROLOGY	145	131	124	146	163	135	154	-1.2	14.1	.9
NURSING	689	1,478	3,352	3,630	3,791	4,887	4,924	38.6	.8	32.4
OBSTETRICS/GYNECOLOGY	8	17	10	15	5	11	14	5.5	27.3	8.3
OPHTHALMOLOGY	19	6	3	2	5	9	4	-11.7	-55.6	-20.0
OTORHINOLARYNGOLOGY	14	16	26	2	6	4	3	-18.8	-25.0	-19.8
PEDIATRICS	22	16	22	65	54	57	55	17.2	-3.5	14.0
PHARMACEUTICAL SCIENCES	761	725	906	891	831	893	825	2.7	-7.6	1.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,021	1,245	1,360	2,120	2,534	2,633	2,671	17.1	1.4	14.7
PSYCHIATRY	119	95	81	55	3	34	21	-18.8	-38.2	-21.9
PULMONARY DISEASE	2	0	0	0	8	2	2	.0	.0	.0
RADIOLOGY	114	105	96	63	67	98	84	-2.5	-14.3	-4.3
SPEECH PATHOLOGY/AUDIOLOGY	1,356	1,218	1,270	1,401	1,473	1,401	1,233	.5	-12.0	-1.3
SURGERY	21	34	33	14	20	40	25	11.3	-37.5	2.5
VETERINARY SCIENCES	69	80	80	74	66	71	77	.5	8.5	1.6
CLINICAL MEDICINE, N.E.C.	38	44	34	77	254	236	301	35.6	27.5	34.4
HEALTH RELATED, N.E.C.	1,297	1,398	1,885	1,965	2,553	2,727	2,570	13.2	-5.8	10.3
PSYCHOLOGY	12,674	14,029	14,556	15,798	16,855	16,826	16,805	4.8	-.1	4.1
SOCIAL SCIENCES	28,659	29,356	30,485	32,060	33,236	31,815	30,400	1.8	-4.4	.8
AGRICULTURAL ECONOMICS	89	80	79	100	127	102	96	2.3	-5.9	1.1
ANTHROPOLOGY	1,900	1,698	1,738	1,574	1,672	1,676	1,655	-2.1	-1.3	-2.0
ECONOMICS (EXCEPT AGRICULTURAL)	4,182	4,314	4,462	4,625	5,137	5,322	5,355	4.1	.6	3.6
GEOGRAPHY	329	286	276	259	288	276	233	-2.9	-15.6	-4.8
HISTORY AND PHILOSOPHY OF SCIENCE	153	158	137	117	115	107	108	-5.8	.9	-4.9
LINGUISTICS	973	1,032	892	1,169	1,077	1,066	816	1.5	-23.5	-2.5
POLITICAL SCIENCE	11,080	11,162	11,956	13,819	13,944	13,321	12,466	3.1	-6.4	1.7
SOCIOLOGY	2,945	3,055	2,855	2,565	2,585	2,475	2,255	-2.9	-8.9	-3.7
SOCIOLOGY/ANTHROPOLOGY	343	306	327	339	332	362	386	.9	6.6	1.7
SOCIAL SCIENCES, N.E.C.	6,665	7,265	7,763	7,493	7,959	7,108	7,030	1.1	-1.1	.8

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-9. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, ALL AREAS:	249,159	253,017	255,959	1.2	133,941	138,643	143,723	3.7
TOTAL US CITIZENS	198,429	198,032	197,932	-.1	-	-	133,220	**
BLACK, NON-HISPANIC	6,607	6,345	7,219	13.8	5,020	4,800	6,083	26.7
AMERICAN INDIAN/ALASKAN NATIVE	661	516	724	40.3	254	231	470	103.5
ASIAN/PACIFIC ISLANDER	5,394	4,926	5,663	15.0	2,830	2,862	3,660	27.9
HISPANIC	4,922	4,521	5,507	21.8	2,490	2,761	3,833	38.8
WHITE, NON-HISPANIC	149,481	141,689	159,351	12.5	79,174	77,741	102,299	31.6
OTHER OR UNKNOWN	31,364	40,035	19,468	-51.4	-	-	16,875	**
FOREIGN	50,730	54,985	58,027	5.5	-	-	10,503	**
TOTAL, ENGINEERING:	43,426	46,498	50,576	8.8	33,488	36,196	36,213	*
TOTAL US CITIZENS	25,338	26,606	29,028	9.1	-	-	32,368	**
BLACK, NON-HISPANIC	476	434	543	25.1	518	545	713	30.8
AMERICAN INDIAN/ALASKAN NATIVE	26	67	77	14.9	50	45	100	122.2
ASIAN/PACIFIC ISLANDER	1,513	1,125	1,425	26.7	1,219	1,128	1,355	20.1
HISPANIC	576	491	605	23.2	545	482	541	12.2
WHITE, NON-HISPANIC	18,799	18,509	21,796	17.8	19,726	20,490	23,276	13.6
OTHER OR UNKNOWN	3,948	5,980	4,582	-23.4	-	-	6,383	**
FOREIGN	18,088	19,892	21,548	8.3	-	-	3,845	**
TOTAL, PHYSICAL SCIENCES:	22,915	23,306	24,071	3.3	4,034	4,074	4,134	1.5
TOTAL US CITIZENS	17,171	17,035	17,583	3.2	-	-	3,675	**
BLACK, NON-HISPANIC	323	328	417	27.1	96	107	136	27.1
AMERICAN INDIAN/ALASKAN NATIVE	13	15	32	113.3	1	4	18	350.0
ASIAN/PACIFIC ISLANDER	513	485	533	9.9	113	138	165	19.6
HISPANIC	305	324	387	19.4	65	49	109	122.4
WHITE, NON-HISPANIC	13,916	13,544	14,762	9.0	2,404	2,307	2,929	27.0
OTHER OR UNKNOWN	2,101	2,339	1,452	-37.9	-	-	318	**
FOREIGN	5,744	6,271	6,488	3.5	-	-	459	**
TOTAL, ENVIRONMENTAL SCIENCES:	10,816	10,963	11,331	3.4	3,078	3,231	3,585	11.0
TOTAL US CITIZENS	9,440	9,472	9,713	2.5	-	-	3,377	**
BLACK, NON-HISPANIC	64	75	72	-4.0	38	31	25	-19.4
AMERICAN INDIAN/ALASKAN NATIVE	38	10	18	80.0	0	5	6	20.0
ASIAN/PACIFIC ISLANDER	137	96	133	38.5	26	25	64	156.0
HISPANIC	111	134	128	-4.5	31	23	57	147.8
WHITE, NON-HISPANIC	7,405	7,093	8,366	17.9	2,080	2,057	2,910	41.5
OTHER OR UNKNOWN	1,685	2,064	996	-51.7	-	-	315	**
FOREIGN	1,376	1,491	1,618	8.5	-	-	208	**
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	16,456	17,581	20,050	14.0	12,433	14,725	16,971	15.3
TOTAL US CITIZENS	11,149	11,386	13,016	14.3	-	-	15,161	**
BLACK, NON-HISPANIC	208	231	363	57.1	285	317	504	59.0
AMERICAN INDIAN/ALASKAN NATIVE	32	8	43	437.5	17	4	39	875.0
ASIAN/PACIFIC ISLANDER	405	510	663	30.0	488	513	717	39.8
HISPANIC	182	216	280	29.6	108	149	259	73.8
WHITE, NON-HISPANIC	7,832	8,221	9,924	20.7	6,790	7,085	11,811	66.7
OTHER OR UNKNOWN	2,490	2,200	1,743	-20.8	-	-	1,831	**
FOREIGN	5,307	6,195	7,034	13.5	-	-	1,810	**

CONTINUED ON NEXT PAGE

TABLE B-9. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS
BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

- CONTINUED

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, AGRICULTURAL SCIENCES:	10,026	10,114	10,050	-0.6	2,300	2,038	2,467	21.1
TOTAL US CITIZENS	7,777	7,728	7,636	-1.2	-	-	2,248	**
BLACK, NON-HISPANIC	92	92	126	37.0	17	34	22	-35.3
AMERICAN INDIAN/ALASKAN NATIVE	19	9	12	33.3	0	4	13	225.0
ASIAN/PACIFIC ISLANDER	125	97	117	20.6	20	25	21	-16.0
HISPANIC	221	134	164	22.4	64	34	46	35.3
WHITE, NON-HISPANIC	6,291	6,339	6,578	3.8	1,464	1,391	1,961	41.0
OTHER OR UNKNOWN	1,029	1,057	639	-39.5	-	-	185	**
FOREIGN	2,249	2,386	2,414	1.2	-	-	219	**
TOTAL, BIOLOGICAL SCIENCES:	37,877	37,523	37,024	-1.3	10,109	9,423	9,528	1.1
TOTAL US CITIZENS	33,322	32,686	32,009	-2.1	-	-	8,938	**
BLACK, NON-HISPANIC	730	650	787	21.1	282	268	351	31.0
AMERICAN INDIAN/ALASKAN NATIVE	53	32	68	112.5	25	6	27	350.0
ASIAN/PACIFIC ISLANDER	959	801	905	13.0	182	159	226	42.1
HISPANIC	606	449	614	36.7	152	124	184	48.4
WHITE, NON-HISPANIC	26,986	25,303	27,713	9.5	6,735	5,929	7,213	21.7
OTHER OR UNKNOWN	3,988	5,451	1,922	-64.7	-	-	937	**
FOREIGN	4,555	4,837	5,015	3.7	-	-	590	**
TOTAL, HEALTH SCIENCES:	24,588	24,704	23,602	-4.5	17,712	19,435	20,847	7.3
TOTAL US CITIZENS	22,525	22,520	21,240	-5.7	-	-	20,123	**
BLACK, NON-HISPANIC	810	761	815	7.1	778	716	877	22.5
AMERICAN INDIAN/ALASKAN NATIVE	99	85	112	31.8	42	35	58	65.7
ASIAN/PACIFIC ISLANDER	560	494	605	22.5	255	255	355	39.2
HISPANIC	623	394	563	42.9	303	267	375	40.4
WHITE, NON-HISPANIC	17,441	16,110	17,685	9.8	12,262	12,434	17,289	39.0
OTHER OR UNKNOWN	2,992	4,676	1,460	-68.8	-	-	1,169	**
FOREIGN	2,063	2,184	2,362	8.2	-	-	724	**
TOTAL, PSYCHOLOGY:	26,671	26,703	25,883	-3.1	13,944	13,966	14,322	2.5
TOTAL US CITIZENS	25,461	25,699	24,789	-3.5	-	-	14,005	**
BLACK, NON-HISPANIC	1,017	983	1,030	4.8	401	467	625	33.8
AMERICAN INDIAN/ALASKAN NATIVE	185	48	75	56.3	48	45	61	35.6
ASIAN/PACIFIC ISLANDER	302	328	321	-2.1	70	78	121	55.1
HISPANIC	971	955	1,038	8.7	327	276	449	62.7
WHITE, NON-HISPANIC	17,606	15,994	19,236	20.3	7,124	7,496	11,154	48.8
OTHER OR UNKNOWN	5,380	7,391	3,089	-58.2	-	-	1,595	**
FOREIGN	1,210	1,004	1,094	9.0	-	-	317	**
TOTAL, SOCIAL SCIENCES:	56,384	55,625	53,372	-4.1	36,843	35,555	35,656	.3
TOTAL US CITIZENS	46,246	44,900	42,918	-4.4	-	-	33,325	**
BLACK, NON-HISPANIC	2,887	2,791	3,066	9.9	2,605	2,315	2,830	22.2
AMERICAN INDIAN/ALASKAN NATIVE	196	242	287	18.6	71	83	148	78.3
ASIAN/PACIFIC ISLANDER	880	990	961	-2.9	457	541	636	17.6
HISPANIC	1,327	1,424	1,728	21.3	895	1,357	1,813	33.6
WHITE, NON-HISPANIC	33,205	30,576	33,291	8.9	20,589	18,552	23,756	28.1
OTHER OR UNKNOWN	7,751	8,877	3,585	-59.6	-	-	4,142	**
FOREIGN	10,138	10,725	10,454	-2.5	-	-	2,331	**

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED PRIOR TO 1982.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-10. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL AREAS:						
TOTAL, ALL SOURCES	242,379	249,159	253,017	255,959	2.2	1.2
FEDERAL, TOTAL	54,450	54,518	52,132	48,801	-2.2	-6.4
DEPT OF DEFENSE	5,038	5,286	5,696	6,063	6.3	6.4
DEPT OF HHS, TOTAL	23,276	19,955	18,388	16,524	-11.1	-10.1
NIH	11,831	11,769	11,442	11,148	-1.7	-2.6
OTHER HHS	11,445	8,186	6,946	5,376	-22.1	-22.6
NSF	9,376	9,352	9,183	9,318	-1.0	1.5
ALL OTHER FEDERAL	16,760	19,925	18,865	16,896	6.1	-10.4
INSTITUTIONAL SUPPORT	86,678	90,514	94,046	97,745	4.2	3.9
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,216	24,629	5.2	6.1
ALL OTHER U.S.	13,158	13,498	14,298	15,432	4.2	7.9
FOREIGN	7,837	8,348	8,918	9,197	6.7	3.1
SELF-SUPPORT	80,256	82,281	83,623	84,784	2.1	1.4
ENGINEERING:						
TOTAL, ALL SOURCES	40,749	43,426	46,498	50,576	6.8	8.8
FEDERAL, TOTAL	10,925	11,300	11,088	11,190	.7	.9
DEPT OF DEFENSE	2,667	2,942	3,170	3,465	9.0	9.3
DEPT OF HHS, TOTAL	1,048	666	550	505	-27.6	-8.2
NIH	513	509	447	403	-6.7	-9.8
OTHER HHS	535	157	103	102	-56.1	-1.0
NSF	2,413	2,413	2,371	2,577	-.9	8.7
ALL OTHER FEDERAL	4,797	5,279	4,997	4,643	2.1	-7.1
INSTITUTIONAL SUPPORT	11,836	12,911	14,417	15,596	10.4	8.2
OTHER OUTSIDE SUPPORT, TOTAL	5,791	6,357	7,186	7,902	11.4	10.0
ALL OTHER U.S.	3,761	4,252	4,918	5,362	14.4	9.0
FOREIGN	2,030	2,105	2,268	2,540	5.7	12.0
SELF-SUPPORT	12,197	12,858	13,807	15,888	6.4	15.1
PHYSICAL SCIENCES:						
TOTAL, ALL SOURCES	22,525	22,915	23,306	24,071	1.7	3.3
FEDERAL, TOTAL	7,489	7,707	7,955	7,725	3.1	-2.9
DEPT OF DEFENSE	645	661	753	708	8.0	-6.0
DEPT OF HHS, TOTAL	1,609	1,650	1,539	1,518	-2.2	-1.4
NIH	1,437	1,556	1,432	1,435	-.2	.2
OTHER HHS	172	94	107	83	-21.1	-22.4
NSF	2,971	2,887	3,036	3,119	1.1	2.7
ALL OTHER FEDERAL	2,264	2,509	2,627	2,380	7.7	-9.4
INSTITUTIONAL SUPPORT	11,906	12,343	12,328	13,021	1.8	5.6
OTHER OUTSIDE SUPPORT, TOTAL	1,516	1,342	1,471	1,786	-1.5	21.4
ALL OTHER U.S.	1,114	975	1,097	1,331	-.8	21.3
FOREIGN	402	367	374	455	-3.5	21.7
SELF-SUPPORT	1,614	1,523	1,552	1,539	-1.9	-.8
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL SOURCES	10,584	10,816	10,963	11,331	1.8	3.4
FEDERAL, TOTAL	3,511	3,433	2,994	2,850	-7.7	-4.8
DEPT OF DEFENSE	328	296	307	299	-3.3	-2.6
DEPT OF HHS, TOTAL	287	121	99	77	-41.3	-22.2
NIH	31	34	20	42	-19.7	110.0
OTHER HHS	256	87	79	35	-44.4	-55.7
NSF	1,285	1,256	1,203	1,193	-3.2	-.8
ALL OTHER FEDERAL	1,611	1,760	1,385	1,281	-7.3	-7.5
INSTITUTIONAL SUPPORT	3,624	3,761	4,007	4,229	5.2	5.5
OTHER OUTSIDE SUPPORT, TOTAL	854	1,043	1,150	1,197	16.0	4.1
ALL OTHER U.S.	529	680	770	820	20.6	6.5
FOREIGN	325	363	380	377	8.1	-.8
SELF-SUPPORT	2,595	2,579	2,812	3,055	4.1	8.6
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL SOURCES	15,489	16,456	17,581	20,050	6.5	14.0
FEDERAL, TOTAL	1,651	1,817	1,803	1,984	4.5	10.0
DEPT OF DEFENSE	608	626	737	847	10.1	14.9
DEPT OF HHS, TOTAL	146	130	84	86	-24.1	2.4
NIH	102	100	71	67	-16.6	-5.6
OTHER HHS	44	30	13	19	-45.6	46.2
NSF	586	593	606	619	1.7	2.1
ALL OTHER FEDERAL	311	468	376	432	10.0	14.9
INSTITUTIONAL SUPPORT	8,330	8,659	9,113	9,894	4.6	8.6
OTHER OUTSIDE SUPPORT, TOTAL	1,093	1,155	1,189	1,343	4.3	13.0
ALL OTHER U.S.	602	652	623	764	1.7	22.6
FOREIGN	491	503	566	579	7.4	2.3
SELF-SUPPORT	4,415	4,825	5,476	6,829	11.4	24.7

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TABLE B-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
AGRICULTURAL SCIENCES:						
TOTAL, ALL SOURCES	9,838	10,026	10,114	10,050	1.4	-0.6
FEDERAL, TOTAL	1,793	1,825	1,732	1,697	-1.7	-2.0
DEPT OF DEFENSE	16	11	11	9	-17.1	-18.2
DEPT OF HHS, TOTAL	107	124	59	38	-25.7	-35.6
NIH	72	110	53	33	-14.2	-37.7
OTHER HHS	35	14	6	5	-58.6	-16.7
NSF	76	85	70	72	-4.0	2.9
ALL OTHER FEDERAL	1,594	1,605	1,592	1,578	-.1	-.9
INSTITUTIONAL SUPPORT	3,472	3,420	3,501	3,573	.4	2.1
OTHER OUTSIDE SUPPORT, TOTAL	1,823	2,083	2,166	2,073	9.0	-4.3
ALL OTHER U.S.	815	944	950	893	8.0	-6.0
FOREIGN	1,008	1,139	1,216	1,180	9.8	-3.0
SELF-SUPPORT	2,750	2,698	2,715	2,707	-.6	-.3
BIOLOGICAL SCIENCES:						
TOTAL, ALL SOURCES	38,167	37,877	37,523	37,024	-.8	-1.3
FEDERAL, TOTAL	11,046	10,889	10,699	10,325	-1.6	-3.5
DEPT OF DEFENSE	128	169	121	121	-2.8	.0
DEPT OF HHS, TOTAL	7,642	7,263	7,229	7,053	-2.7	-2.4
NIH	7,053	6,861	6,845	6,731	-1.5	-1.7
OTHER HHS	589	402	384	322	-19.3	-16.1
NSF	1,184	1,230	1,151	1,133	-1.4	-1.6
ALL OTHER FEDERAL	2,092	2,227	2,198	2,018	2.5	-8.2
INSTITUTIONAL SUPPORT	15,871	16,323	16,444	16,600	1.8	.9
OTHER OUTSIDE SUPPORT, TOTAL	2,956	2,804	2,810	3,134	-2.5	11.5
ALL OTHER U.S.	1,840	1,800	1,713	2,037	-3.5	18.9
FOREIGN	1,116	1,004	1,097	1,097	-.9	.0
SELF-SUPPORT	8,294	7,861	7,570	6,965	-4.5	-8.0
HEALTH SCIENCES:						
TOTAL, ALL SOURCES	23,247	24,588	24,704	23,602	3.1	-4.5
FEDERAL, TOTAL	8,401	8,604	8,060	6,540	-2.1	-18.9
DEPT OF DEFENSE	186	165	187	198	.3	5.9
DEPT OF HHS, TOTAL	7,445	6,444	5,809	4,943	-11.7	-14.9
NIH	969	962	1,108	1,307	6.9	18.0
OTHER HHS	6,476	5,482	4,701	3,636	-14.8	-22.7
NSF	54	53	36	41	-18.4	13.9
ALL OTHER FEDERAL	716	1,942	2,028	1,358	68.3	-33.0
INSTITUTIONAL SUPPORT	4,312	4,838	4,679	5,097	4.2	8.9
OTHER OUTSIDE SUPPORT, TOTAL	1,328	1,271	1,313	1,382	-.6	5.3
ALL OTHER U.S.	832	775	865	924	2.0	6.8
FOREIGN	496	496	448	458	-5.0	2.2
SELF-SUPPORT	9,206	9,875	10,652	10,583	7.6	-.6
PSYCHOLOGY:						
TOTAL, ALL SOURCES	25,846	26,671	26,703	25,883	1.6	-3.1
FEDERAL, TOTAL	3,601	3,386	3,053	2,427	-7.9	-20.5
DEPT OF DEFENSE	150	131	144	128	-2.0	-11.1
DEPT OF HHS, TOTAL	2,534	1,926	1,662	1,328	-19.0	-20.1
NIH	1,096	1,042	926	748	-8.1	-19.2
OTHER HHS	1,438	884	736	580	-28.5	-21.2
NSF	261	289	246	209	-2.9	-15.0
ALL OTHER FEDERAL	656	1,040	1,001	762	23.5	-23.9
INSTITUTIONAL SUPPORT	8,192	8,557	9,416	9,407	7.2	-.1
OTHER OUTSIDE SUPPORT, TOTAL	1,483	1,514	1,531	1,399	1.6	-8.6
ALL OTHER U.S.	1,359	1,376	1,438	1,317	2.9	-8.4
FOREIGN	124	138	93	82	-13.4	-11.8
SELF-SUPPORT	12,570	13,214	12,703	12,650	.5	-.4
SOCIAL SCIENCES:						
TOTAL, ALL SOURCES	55,934	56,384	55,625	53,372	-.3	-4.1
FEDERAL, TOTAL	6,033	5,557	4,748	4,063	-11.3	-14.4
DEPT OF DEFENSE	310	285	266	288	-7.4	8.3
DEPT OF HHS, TOTAL	2,458	1,631	1,357	976	-25.7	-28.1
NIH	558	595	540	382	-1.6	-29.3
OTHER HHS	1,900	1,036	817	594	-34.4	-27.3
NSF	546	546	464	355	-7.8	-23.5
ALL OTHER FEDERAL	2,719	3,095	2,661	2,444	-1.1	-8.2
INSTITUTIONAL SUPPORT	19,135	19,702	20,141	20,328	2.6	.9
OTHER OUTSIDE SUPPORT, TOTAL	4,151	4,277	4,400	4,413	3.0	.3
ALL OTHER U.S.	2,306	2,044	1,924	1,984	-8.7	3.1
FOREIGN	1,845	2,233	2,476	2,429	15.8	-1.9
SELF-SUPPORT	26,615	26,848	26,336	24,568	-.5	-6.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-11. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979–82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979–81	1981–82
TOTAL, ALL AREAS:						
TOTAL, ALL SOURCES	163,509	164,827	165,128	167,270	0.5	1.3
FEDERAL, TOTAL	37,449	36,907	35,278	33,463	-2.9	-5.1
DEPT OF DEFENSE	4,622	4,816	5,209	5,511	6.2	5.8
DEPT OF HHS, TOTAL	11,609	9,842	9,042	8,131	-11.7	-10.1
NIH	7,715	7,566	7,201	6,801	-3.4	-5.6
OTHER HHS	3,894	2,276	1,841	1,330	-31.2	-27.8
NSF	7,839	7,738	7,514	7,638	-2.1	1.7
ALL OTHER FEDERAL	13,379	14,511	13,513	12,183	.5	-9.8
INSTITUTIONAL SUPPORT	60,569	62,250	63,679	65,104	2.5	2.2
OTHER OUTSIDE SUPPORT, TOTAL	16,270	16,967	18,154	19,441	5.6	7.1
ALL OTHER U.S.	9,497	9,871	10,542	11,608	5.4	10.1
FOREIGN	6,773	7,096	7,612	7,833	6.0	2.9
SELF-SUPPORT	49,221	48,703	48,017	49,262	-1.2	2.6
ENGINEERING:						
TOTAL, ALL SOURCES	37,129	39,347	41,692	45,115	6.0	8.2
FEDERAL, TOTAL	10,170	10,443	10,218	10,226	.2	.1
DEPT OF DEFENSE	2,585	2,800	3,035	3,294	8.4	8.5
DEPT OF HHS, TOTAL	905	554	455	422	-29.1	-7.3
NIH	446	428	384	338	-7.2	-12.0
OTHER HHS	459	126	71	84	-60.7	18.3
NSF	2,257	2,246	2,191	2,375	-1.5	8.4
ALL OTHER FEDERAL	4,423	4,843	4,537	4,135	1.3	-8.9
INSTITUTIONAL SUPPORT	10,684	11,641	12,892	13,762	9.8	6.7
OTHER OUTSIDE SUPPORT, TOTAL	5,346	5,808	6,556	7,175	10.7	9.4
ALL OTHER U.S.	3,401	3,796	4,207	4,779	13.8	8.4
FOREIGN	1,945	2,012	2,149	2,396	5.1	11.5
SELF-SUPPORT	10,929	11,455	12,026	13,952	4.9	16.0
PHYSICAL SCIENCES:						
TOTAL, ALL SOURCES	19,034	19,213	19,304	19,667	.7	1.9
FEDERAL, TOTAL	6,531	6,675	6,795	6,530	2.0	-3.9
DEPT OF DEFENSE	574	602	681	626	8.9	-8.1
DEPT OF HHS, TOTAL	1,281	1,325	1,205	1,141	-3.0	-5.3
NIH	1,156	1,257	1,117	1,073	-1.7	-3.9
OTHER HHS	125	68	88	68	-16.1	-22.7
NSF	2,640	2,550	2,622	2,700	-.3	3.0
ALL OTHER FEDERAL	2,036	2,198	2,287	2,063	6.0	-9.8
INSTITUTIONAL SUPPORT	9,842	10,094	10,004	10,382	.8	3.8
OTHER OUTSIDE SUPPORT, TOTAL	1,298	1,128	1,229	1,491	-2.7	21.3
ALL OTHER U.S.	948	821	905	1,101	-2.3	21.7
FOREIGN	350	307	324	390	-3.8	20.4
SELF-SUPPORT	1,363	1,316	1,276	1,264	-3.2	-.9
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL SOURCES	8,355	8,347	8,358	8,525	*	2.0
FEDERAL, TOTAL	2,825	2,709	2,301	2,202	-9.7	-4.3
DEPT OF DEFENSE	287	259	262	267	-4.5	1.9
DEPT OF HHS, TOTAL	197	75	61	52	-44.4	-14.8
NIH	22	21	13	30	-23.1	130.8
OTHER HHS	175	54	48	22	-47.6	-54.2
NSF	1,042	992	919	909	-6.1	-1.1
ALL OTHER FEDERAL	1,299	1,383	1,059	974	-9.7	-8.0
INSTITUTIONAL SUPPORT	2,755	2,795	2,974	3,046	3.9	2.4
OTHER OUTSIDE SUPPORT, TOTAL	721	866	931	969	13.6	4.1
ALL OTHER U.S.	418	537	589	631	18.7	7.1
FOREIGN	303	329	342	338	6.2	-1.2
SELF-SUPPORT	2,054	1,977	2,152	2,308	2.4	7.2
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL SOURCES	12,283	12,754	13,320	14,960	4.1	12.3
FEDERAL, TOTAL	1,445	1,580	1,562	1,721	4.0	10.2
DEPT OF DEFENSE	559	584	683	786	10.5	15.1
DEPT OF HHS, TOTAL	106	96	72	69	-17.6	-4.2
NIH	83	79	65	58	-11.5	-10.8
OTHER HHS	23	17	7	11	-44.8	57.1
NSF	509	509	514	514	.5	.0
ALL OTHER FEDERAL	271	391	293	352	4.0	20.1
INSTITUTIONAL SUPPORT	6,477	6,672	6,800	7,310	2.5	7.5
OTHER OUTSIDE SUPPORT, TOTAL	877	933	973	1,055	5.3	8.4
ALL OTHER U.S.	468	519	498	593	3.2	19.1
FOREIGN	409	414	475	462	7.8	-2.7
SELF-SUPPORT	3,484	3,569	3,985	4,874	6.9	22.3

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TABLE B-11. -- MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
AGRICULTURAL SCIENCES:						
TOTAL, ALL SOURCES	7,687	7,684	7,766	7,556	0.5	-2.7
FEDERAL, TOTAL	1,447	1,406	1,331	1,303	-4.1	-2.1
DEPT OF DEFENSE	14	10	9	7	-19.8	-22.2
DEPT OF HHS, TOTAL	74	79	36	25	-30.3	-30.6
NIH	55	74	35	23	-20.2	-34.3
OTHER HHS	19	5	1	2	-77.1	100.0
NSF	52	70	57	48	4.7	-15.8
ALL OTHER FEDERAL	1,307	1,247	1,229	1,223	-3.0	-.5
INSTITUTIONAL SUPPORT	2,607	2,525	2,546	2,540	-1.2	-.2
OTHER OUTSIDE SUPPORT, TOTAL	1,606	1,795	1,872	1,772	8.0	-5.3
ALL OTHER U.S.	678	743	748	695	5.0	-7.1
FOREIGN	928	1,052	1,124	1,077	10.1	-4.2
SELF-SUPPORT	2,027	1,958	2,017	1,941	-.2	-3.8
BIOLOGICAL SCIENCES:						
TOTAL, ALL SOURCES	24,537	23,873	23,306	22,329	-2.5	-4.2
FEDERAL, TOTAL	7,232	7,022	6,892	6,468	-2.4	-6.2
DEPT OF DEFENSE	97	120	95	86	-1.0	-9.5
DEPT OF HHS, TOTAL	4,893	4,610	4,594	4,358	-3.1	-5.1
NIH	4,576	4,402	4,355	4,174	-2.4	-4.2
OTHER HHS	317	208	239	184	-13.2	-23.0
NSF	814	818	778	735	-2.2	-5.5
ALL OTHER FEDERAL	1,428	1,474	1,425	1,289	-.1	-9.5
INSTITUTIONAL SUPPORT	10,214	10,297	9,996	9,866	-1.1	-1.3
OTHER OUTSIDE SUPPORT, TOTAL	2,061	1,949	2,006	2,163	-1.3	7.8
ALL OTHER U.S.	1,195	1,160	1,139	1,320	-2.4	15.9
FOREIGN	866	789	867	843	.1	-2.8
SELF-SUPPORT	5,030	4,605	4,412	3,832	-6.3	-13.1
HEALTH SCIENCES:						
TOTAL, ALL SOURCES	7,971	8,099	7,744	7,247	-1.4	-6.4
FEDERAL, TOTAL	2,422	2,334	2,070	1,566	-7.6	-24.3
DEPT OF DEFENSE	127	113	115	117	-4.8	1.7
DEPT OF HHS, TOTAL	1,905	1,608	1,404	1,107	-14.2	-21.2
NIH	631	583	576	635	-4.5	10.2
OTHER HHS	1,274	1,025	828	472	-19.4	-43.0
NSF	32	35	21	27	-19.0	28.6
ALL OTHER FEDERAL	358	578	530	315	21.[illegible]	-40.[illegible]
INSTITUTIONAL SUPPORT	2,006	2,180	2,046	2,072	1.5	.3
OTHER OUTSIDE SUPPORT, TOTAL	679	697	709	740	2.2	4.4
ALL OTHER U.S.	347	372	389	421	5.9	8.2
FOREIGN	332	325	320	319	-1.8	-.3
SELF-SUPPORT	2,864	2,888	2,899	2,869	.6	-1.0
PSYCHOLOGY:						
TOTAL, ALL SOURCES	13,271	12,775	12,054	11,267	-4.7	-6.5
FEDERAL, TOTAL	1,905	1,678	1,510	1,202	-11.0	-20.4
DEPT OF DEFENSE	106	89	100	79	-2.9	-21.0
DEPT OF HHS, TOTAL	1,242	902	759	634	-21.8	-16.5
NIH	522	501	433	339	-8.9	-21.7
OTHER HHS	720	401	326	295	-32.7	-9.5
NSF	144	160	125	105	-6.8	-16.0
ALL OTHER FEDERAL	413	527	526	384	12.9	-27.0
INSTITUTIONAL SUPPORT	4,261	4,252	4,430	4,258	2.0	-3.9
OTHER OUTSIDE SUPPORT, TOTAL	782	744	790	737	.5	-6.7
ALL OTHER U.S.	706	672	750	699	3.1	-6.8
FOREIGN	76	72	40	38	-27.5	-5.0
SELF-SUPPORT	6,323	6,101	5,324	5,070	-8.2	-4.8
SOCIAL SCIENCES:						
TOTAL, ALL SOURCES	33,242	32,735	31,584	30,604	-2.5	-3.1
FEDERAL, TOTAL	3,472	3,060	2,599	2,245	-13.5	-13.6
DEPT OF DEFENSE	273	239	229	249	-8.4	8.7
DEPT OF HHS, TOTAL	1,006	593	456	323	-32.7	-29.2
NIH	224	221	223	131	-.2	-41.3
OTHER HHS	782	372	233	192	-45.4	-17.6
NSF	349	358	287	225	-9.3	-21.6
ALL OTHER FEDERAL	1,844	1,870	1,627	1,448	-6.1	-11.0
INSTITUTIONAL SUPPORT	11,723	11,794	11,971	11,868	1.1	-.9
OTHER OUTSIDE SUPPORT, TOTAL	2,900	3,047	3,088	3,339	3.2	8.1
ALL OTHER U.S.	1,336	1,251	1,117	1,369	-8.6	22.6
FOREIGN	1,564	1,796	1,971	1,970	12.3	-.1
SELF-SUPPORT	15,157	14,834	13,926	13,152	-4.1	-5.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-12. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL AREAS:						
TOTAL, ALL SOURCES	78,870	84,332	87,889	88,689	5.6	0.9
FEDERAL, TOTAL	17,001	17,611	16,854	15,338	-.4	-9.0
DEPT OF DEFENSE	416	470	487	552	8.2	13.3
DEPT OF HHS, TOTAL	11,667	10,113	9,346	8,393	-10.5	-10.2
NIH	4,116	4,203	4,241	4,347	1.5	2.5
OTHER HHS	7,551	5,910	5,105	4,046	-17.8	-20.7
NSF	1,537	1,614	1,669	1,680	4.2	.7
ALL OTHER FEDERAL	3,381	5,414	5,352	4,713	25.8	-11.9
INSTITUTIONAL SUPPORT	26,109	28,264	30,367	32,641	7.8	7.5
OTHER OUTSIDE SUPPORT, TOTAL	4,725	4,879	5,062	5,188	3.5	2.5
ALL OTHER U.S.	3,661	3,627	3,756	3,824	1.3	1.8
FOREIGN	1,064	1,252	1,306	1,364	10.8	4.4
SELF-SUPPORT	31,035	33,578	35,606	35,522	7.1	-.2
ENGINEERING:						
TOTAL, ALL SOURCES	3,620	4,079	4,806	5,461	15.2	13.6
FEDERAL, TOTAL	755	857	870	964	7.3	10.8
DEPT OF DEFENSE	82	142	135	171	28.3	26.7
DEPT OF HHS, TOTAL	143	112	95	83	-18.5	-12.6
NIH	67	81	63	65	-3.0	3.2
OTHER HHS	76	31	32	18	-35.1	-43.8
NSF	156	167	180	202	7.4	12.2
ALL OTHER FEDERAL	374	436	460	508	10.9	10.4
INSTITUTIONAL SUPPORT	1,152	1,270	1,525	1,834	15.1	20.3
OTHER OUTSIDE SUPPORT, TOTAL	445	549	630	727	19.0	15.4
ALL OTHER U.S.	360	456	511	583	19.1	14.1
FOREIGN	85	93	119	144	18.3	21.0
SELF-SUPPORT	1,268	1,403	1,781	1,936	18.5	8.7
PHYSICAL SCIENCES:						
TOTAL, ALL SOURCES	3,491	3,702	4,002	4,404	7.1	10.0
FEDERAL, TOTAL	958	1,032	1,160	1,195	10.0	3.0
DEPT OF DEFENSE	71	59	72	82	.7	13.9
DEPT OF HHS, TOTAL	328	325	334	377	.9	12.9
NIH	281	299	315	362	5.9	14.9
OTHER HHS	47	26	19	15	-36.4	-21.1
NSF	331	337	414	419	11.8	1.2
ALL OTHER FEDERAL	228	311	340	317	22.1	-6.8
INSTITUTIONAL SUPPORT	2,064	2,249	2,324	2,639	6.1	13.6
OTHER OUTSIDE SUPPORT, TOTAL	218	214	242	295	5.4	21.9
ALL OTHER U.S.	166	154	192	230	7.5	19.8
FOREIGN	52	60	50	65	-1.9	30.0
SELF-SUPPORT	251	207	276	275	4.9	-.4
ENVIRONMENTAL SCIENCES:						
TOTAL, ALL SOURCES	2,229	2,469	2,605	2,806	8.1	7.7
FEDERAL, TOTAL	686	724	693	648	.5	-6.5
DEPT OF DEFENSE	41	37	45	32	4.8	-28.9
DEPT OF HHS, TOTAL	90	46	38	25	-35.0	-34.2
NIH	9	13	7	12	-11.8	71.4
OTHER HHS	81	33	31	13	-38.1	-58.1
NSF	243	264	284	284	8.1	.0
ALL OTHER FEDERAL	312	377	326	307	2.2	-5.8
INSTITUTIONAL SUPPORT	869	966	1,033	1,183	9.0	14.5
OTHER OUTSIDE SUPPORT, TOTAL	133	177	219	228	28.3	4.1
ALL OTHER U.S.	111	143	181	189	27.7	4.4
FOREIGN	22	34	38	39	31.4	2.6
SELF-SUPPORT	541	602	660	747	10.5	13.2
MATHEMATICAL/COMPUTER SCIENCES:						
TOTAL, ALL SOURCES	3,206	3,702	4,261	5,090	15.3	19.5
FEDERAL, TOTAL	206	237	241	263	8.2	9.1
DEPT OF DEFENSE	49	42	54	61	5.0	13.0
DEPT OF HHS, TOTAL	40	34	12	17	-45.2	41.7
NIH	19	21	6	9	-43.8	50.0
OTHER HHS	21	13	6	8	-46.5	33.3
NSF	77	84	92	105	9.3	14.1
ALL OTHER FEDERAL	40	77	83	80	44.0	-3.6
INSTITUTIONAL SUPPORT	1,853	1,987	2,313	2,584	11.7	11.7
OTHER OUTSIDE SUPPORT, TOTAL	216	222	216	288	.0	33.3
ALL OTHER U.S.	134	133	125	171	-3.4	36.8
FOREIGN	82	89	91	117	5.3	28.6
SELF-SUPPORT	931	1,256	1,491	1,955	26.6	31.1

CONTINUED ON NEXT PAGE.

TABLE B-12. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1979-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
AGRICULTURAL SCIENCES:						
TOTAL, ALL SOURCES	2,151	2,342	2,348	2,494	4.5	6.2
FEDERAL, TOTAL	346	419	401	394	7.7	-1.7
DEPT OF DEFENSE	2	1	2	2	.0	.0
DEPT OF HHS, TOTAL	33	45	23	13	-16.5	-43.5
NIH	17	36	18	10	2.9	-44.4
OTHER HHS	16	9	5	3	-44.1	-40.0
NSF	24	15	13	24	-26.4	84.6
ALL OTHER FEDERAL	287	358	363	355	12.5	-2.2
INSTITUTIONAL SUPPORT	865	895	955	1,033	5.1	8.2
OTHER OUTSIDE SUPPORT, TOTAL	217	288	294	301	16.4	2.4
ALL OTHER U.S.	137	201	202	198	21.4	-2.0
FOREIGN	80	87	92	103	7.2	12.0
SELF-SUPPORT	723	740	698	766	-1.7	9.7
BIOLOGICAL SCIENCES:						
TOTAL, ALL SOURCES	13,630	14,004	14,217	14,695	2.1	3.4
FEDERAL, TOTAL	3,814	3,867	3,807	3,857	-.1	1.3
DEPT OF DEFENSE	31	49	26	35	-8.4	34.6
DEPT OF HHS, TOTAL	2,749	2,653	2,635	2,695	-2.1	2.3
NIH	2,477	2,459	2,490	2,557	.3	2.7
OTHER HHS	272	194	145	138	-27.0	-4.8
NSF	370	412	373	398	.4	6.7
ALL OTHER FEDERAL	664	753	773	729	7.9	-5.7
INSTITUTIONAL SUPPORT	5,657	6,026	6,448	6,734	6.8	4.4
OTHER OUTSIDE SUPPORT, TOTAL	895	855	804	971	-5.2	20.8
ALL OTHER U.S.	645	640	574	717	-5.7	24.9
FOREIGN	250	215	230	254	-4.1	10.4
SELF-SUPPORT	3,264	3,256	3,158	3,133	-1.6	-.8
HEALTH SCIENCES:						
TOTAL, ALL SOURCES	15,276	16,489	16,960	16,355	5.4	-3.6
FEDERAL, TOTAL	5,979	6,270	5,990	4,974	.1	-17.0
DEPT OF DEFENSE	59	52	72	81	10.5	12.5
DEPT OF HHS, TOTAL	5,540	4,836	4,405	3,836	-10.8	-12.9
NIH	338	379	532	672	25.5	26.3
OTHER HHS	5,202	4,457	3,873	3,164	-13.7	-18.3
NSF	22	18	15	14	-17.4	-6.7
ALL OTHER FEDERAL	358	1,364	1,498	1,043	104.6	-30.4
INSTITUTIONAL SUPPORT	2,306	2,658	2,613	3,025	6.4	15.8
OTHER OUTSIDE SUPPORT, TOTAL	649	574	604	642	-3.5	6.3
ALL OTHER U.S.	485	403	476	503	-.9	5.7
FOREIGN	164	171	128	139	-11.7	8.6
SELF-SUPPORT	6,342	6,987	7,753	7,714	10.6	-.5
PSYCHOLOGY:						
TOTAL, ALL SOURCES	12,575	13,896	14,649	14,616	7.9	-.2
FEDERAL, TOTAL	1,696	1,708	1,543	1,225	-4.6	-20.6
DEPT OF DEFENSE	44	42	44	49	.0	11.4
DEPT OF HHS, TOTAL	1,292	1,024	903	694	-16.4	-23.1
NIH	574	541	493	409	-7.3	-17.0
OTHER HHS	718	483	410	285	-24.4	-30.5
NSF	117	129	121	104	1.7	-14.0
ALL OTHER FEDERAL	243	513	475	378	39.8	-20.4
INSTITUTIONAL SUPPORT	3,931	4,305	4,986	5,149	12.6	3.3
OTHER OUTSIDE SUPPORT, TOTAL	701	770	741	662	2.8	-10.7
ALL OTHER U.S.	653	704	688	618	2.6	-10.2
FOREIGN	48	66	53	44	5.1	-17.0
SELF-SUPPORT	6,247	7,113	7,379	7,580	8.7	2.7
SOCIAL SCIENCES:						
TOTAL, ALL SOURCES	22,692	23,649	24,041	22,768	2.9	-5.3
FEDERAL, TOTAL	2,561	2,497	2,149	1,818	-8.4	-15.4
DEPT OF DEFENSE	37	46	37	39	.0	5.4
DEPT OF HHS, TOTAL	1,452	1,038	901	653	-21.2	-27.5
NIH	334	374	317	251	-2.6	-20.8
OTHER HHS	1,118	664	584	402	-27.7	-31.2
NSF	197	188	177	130	-5.2	-26.6
ALL OTHER FEDERAL	875	1,225	1,034	996	8.7	-3.7
INSTITUTIONAL SUPPORT	7,412	7,908	8,170	8,460	5.0	3.5
OTHER OUTSIDE SUPPORT, TOTAL	1,251	1,230	1,312	1,074	2.4	-18.1
ALL OTHER U.S.	970	793	807	615	-8.8	-23.8
FOREIGN	281	437	505	459	34.1	-9.1
SELF-SUPPORT	11,468	12,014	12,410	11,416	4.0	-8.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-13.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-82

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL TYPES:						
TOTAL, ALL SOURCES	242,379	249,159	253,017	255,959	2.2	1.2
FEDERAL, TOTAL	54,450	54,518	52,132	48,801	-2.2	-6.4
DEPT OF DEFENSE	5,038	5,286	5,696	6,063	6.3	6.4
DEPT OF HHS, TOTAL	23,276	19,955	18,382	16,524	-11.1	-10.1
NIH	11,831	11,769	11,442	11,148	-1.7	-2.6
OTHER HHS	11,445	8,186	6,946	5,376	-22.1	-22.6
NSF	9,376	9,352	9,183	9,318	-1.0	1.5
ALL OTHER FEDERAL	16,760	19,925	18,865	16,896	6.1	-10.4
INSTITUTIONAL SUPPORT	86,678	90,514	94,046	97,745	4.2	3.9
OTHER OUTSIDE SUPPORT, TOTAL	20,995	21,846	23,216	24,629	5.2	6.1
ALL OTHER U.S.	13,158	13,498	14,298	15,432	4.2	7.9
FOREIGN	7,837	8,348	8,918	9,197	6.7	3.1
SELF-SUPPORT	80,256	82,281	83,623	84,784	2.1	1.4
FELLOWSHIPS AND TRAINEESHIPS:						
TOTAL, ALL SOURCES	40,300	40,058	38,694	37,200	-2.0	-3.9
FEDERAL, TOTAL	19,948	19,121	17,274	15,042	-6.9	-12.9
DEPT OF DEFENSE	282	330	270	238	-2.2	-11.9
DEPT OF HHS, TOTAL	15,951	13,066	11,730	10,110	-14.2	-13.8
NIH	6,307	5,920	5,619	5,505	-5.6	-2.0
OTHER HHS	9,644	7,146	6,111	4,605	-20.4	-24.6
NSF	1,629	1,578	1,419	1,400	-6.7	-1.3
ALL OTHER FEDERAL	2,086	4,147	3,855	3,294	35.9	-14.6
INSTITUTIONAL SUPPORT	13,125	13,123	13,319	13,455	.7	1.0
OTHER OUTSIDE SUPPORT, TOTAL	7,227	7,814	8,101	8,703	5.9	7.4
ALL OTHER U.S.	3,953	4,068	4,106	4,591	1.9	11.8
FOREIGN	3,274	3,746	3,995	4,112	10.5	2.9
SELF-SUPPORT	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:						
TOTAL, ALL SOURCES	49,425	51,954	53,146	53,294	3.7	.3
FEDERAL, TOTAL	28,129	29,395	29,208	28,497	1.9	-2.4
DEPT OF DEFENSE	2,802	2,934	3,297	3,476	8.5	5.4
DEPT OF HHS, TOTAL	6,223	6,062	6,081	5,873	-1.1	-3.4
NIH	5,066	5,459	5,520	5,353	4.4	-3.0
OTHER HHS	1,157	603	561	520	-30.4	-7.3
NSF	7,508	7,630	7,603	7,775	.6	2.3
ALL OTHER FEDERAL	11,596	12,769	12,227	11,373	2.7	-7.0
INSTITUTIONAL SUPPORT	15,691	16,688	17,550	17,897	5.8	2.0
OTHER OUTSIDE SUPPORT, TOTAL	5,605	5,871	6,388	6,900	6.8	8.0
ALL OTHER U.S.	4,918	5,321	5,780	6,291	8.4	8.8
FOREIGN	687	550	608	609	-5.9	.2
SELF-SUPPORT	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:						
TOTAL, ALL SOURCES	52,033	54,134	54,025	58,820	3.8	5.0
FEDERAL, TOTAL	609	680	622	438	1.1	-29.6
DEPT OF DEFENSE	0	0	0	0	0	0
DEPT OF HHS, TOTAL	252	145	118	110	-31.6	-6.8
NIH	116	83	75	49	-19.6	-34.7
OTHER HHS	136	62	43	61	-43.8	41.9
NSF	36	37	61	27	30.2	-55.7
ALL OTHER FEDERAL	321	498	443	301	17.5	-32.1
INSTITUTIONAL SUPPORT	51,018	53,114	54,994	57,893	3.8	5.3
OTHER OUTSIDE SUPPORT, TOTAL	406	340	409	489	.4	19.6
ALL OTHER U.S.	406	340	409	489	.4	19.6
FOREIGN	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:						
TOTAL, ALL SOURCES	100,621	103,013	105,152	106,645	2.2	1.4
FEDERAL, TOTAL	5,764	5,322	5,028	4,824	-6.6	-4.1
DEPT OF DEFENSE	1,954	2,022	2,129	2,349	4.4	10.3
DEPT OF HHS, TOTAL	850	682	459	431	-26.5	-6.1
NIH	342	307	228	241	-18.4	5.7
OTHER HHS	508	375	231	190	-32.6	-17.7
NSF	203	107	100	116	-29.8	16.0
ALL OTHER FEDERAL	2,757	2,511	2,340	1,928	-7.9	-17.6
INSTITUTIONAL SUPPORT	6,844	7,589	8,183	8,500	9.3	3.9
OTHER OUTSIDE SUPPORT, TOTAL	7,757	7,821	8,318	8,537	3.6	2.6
ALL OTHER U.S.	3,881	3,769	4,003	4,061	1.6	1.4
FOREIGN	3,876	4,052	4,315	4,476	5.5	3.7
SELF-SUPPORT	80,256	82,281	83,623	84,784	2.1	1.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 8-14.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	40,300	40,058	38,694	37,200	-2.0	-3.9
ENGINEERING	4,479	4,717	5,147	5,535	7.2	7.5
AEROSPACE	90	105	130	147	20.2	13.1
AGRICULTURAL	71	84	47	70	-18.6	48.9
BIOMEDICAL	194	153	143	121	-14.1	-15.4
CHEMICAL	701	730	806	1,028	7.2	27.5
CIVIL	767	821	847	817	5.1	-3.5
ELECTRICAL	761	871	1,099	1,163	20.2	5.8
ENGINEERING SCIENCE	170	178	219	237	13.5	8.2
INDUSTRIAL	363	289	305	332	-8.3	8.9
MECHANICAL	562	594	639	708	6.6	10.8
METALLURGICAL/MATERIALS	279	326	310	330	5.4	6.5
MINING	126	102	92	52	-14.6	-43.5
NUCLEAR	124	159	143	158	7.4	10.5
PETROLEUM	77	89	73	102	-2.6	39.7
ENGINEERING, N.E.C.	194	216	294	270	23.1	-8.2
PHYSICAL SCIENCES	2,330	2,212	2,301	2,325	-.6	1.0
ASTRONOMY	95	103	72	87	-12.9	20.8
CHEMISTRY	1,460	1,303	1,415	1,375	-1.6	-2.8
PHYSICS	769	795	809	854	2.6	5.6
PHYSICAL SCIENCES, N.E.C.	6	11	5	9	-8.7	80.0
ENVIRONMENTAL SCIENCES	1,091	1,103	1,096	1,133	.2	3.4
ATMOSPHERIC SCIENCES	41	30	22	33	-26.7	50.0
GEOSCIENCES	678	764	735	770	4.1	4.8
OCEANOGRAPHY	157	168	177	211	6.2	19.2
ENVIRONMENTAL SCIENCES, N.E.C.	215	141	162	119	-13.2	-26.5
MATHEMATICAL/COMPUTER SCIENCES	1,380	1,270	1,305	1,287	-2.8	-1.4
COMPUTER SCIENCE	432	388	499	507	7.5	1.6
MATHEMATICS AND APPLIED MATHEMATICS	789	713	696	672	-6.1	-3.4
STATISTICS	159	169	110	108	-16.8	-1.8
LIFE SCIENCES	17,494	17,492	16,929	15,887	-1.6	-6.2
AGRICULTURAL SCIENCES	738	785	834	811	6.3	-2.8
BIOLOGICAL SCIENCES	8,294	8,222	8,005	7,927	-1.8	-1.0
ANATOMY	297	294	300	263	.5	-12.3
BIOCHEMISTRY	1,067	1,023	990	984	-3.7	-.6
BIOLOGY	1,623	1,513	1,370	1,307	-8.1	-4.6
BIOMETRY/EPIDEMIOLOGY	346	364	430	388	11.5	-9.8
BIOPHYSICS	215	182	175	161	-9.8	-8.0
BOTANY	267	231	224	231	-8.4	3.1
CELL BIOLOGY	378	460	461	560	10.4	21.5
ECOLOGY	82	119	126	111	24.0	-11.9
ENTOMOLOGY/PARASITOLOGY	130	154	166	149	13.0	-10.2
GENETICS	335	349	294	304	-6.5	3.4
MICROBIOLOGY	993	940	840	881	-8.0	4.9
NUTRITION	379	385	361	378	-2.4	4.7
PATHOLOGY	365	369	418	364	7.0	-12.9
PHARMACOLOGY	862	872	892	887	1.7	-.6
PHYSIOLOGY	561	562	529	480	-2.9	-9.3
ZOOLOGY	199	200	198	208	-.3	5.1
BIOSCIENCES, N.E.C.	194	205	231	271	9.1	17.3
HEALTH SCIENCES	8,462	8,485	8,090	7,149	-2.2	-11.6
ANESTHESIOLOGY	3	0	1	2	-42.3	100.0
CANCER/ONCOLOGY	34	34	0	43	-100.0	**
CARDIOLOGY	1	11	0	3	-100.0	**
DENTISTRY	184	150	169	224	-4.2	32.5
ENDOCRINOLOGY	20	20	20	30	.0	50.0
GASTROENTEROLOGY	0	0	2	7	**	250.0
HEMATOLOGY	5	1	2	1	-36.8	-50.0
NEUROLOGY	207	180	177	163	-7.5	-7.9
NURSING	3,730	3,763	3,754	3,296	.3	-12.2
OBSTETRICS/GYNECOLOGY	20	2	6	5	-45.2	-16.7
OPHTHALMOLOGY	2	10	6	2	73.2	-66.7
OTORHINOLARYNGOLOGY	14	11	12	12	-7.4	.0
PEDIATRICS	68	73	92	62	16.3	-32.6
PHARMACEUTICAL SCIENCES	245	240	273	242	5.6	-11.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,821	1,960	1,828	1,342	.2	-26.6
PSYCHIATRY	49	37	25	44	-28.6	76.0
PULMONARY DISEASE	0	13	9	9	**	.0
RADIOLOGY	87	75	109	110	11.9	.9
SPEECH PATHOLOGY/AUDIOLOGY	1,011	926	869	822	-7.3	-5.4
SURGERY	36	41	60	53	29.1	-11.7
VETERINARY SCIENCES	80	85	57	70	-15.6	22.8
CLINICAL MEDICINE, N.E.C.	121	127	113	141	-3.4	24.8
HEALTH RELATED, N.E.C.	724	726	506	466	-16.4	-7.9
PSYCHOLOGY	3,790	3,608	3,259	3,040	-7.3	-6.7
SOCIAL SCIENCES	9,736	9,656	8,657	7,993	-5.7	-7.7
AGRICULTURAL ECONOMICS	153	216	198	205	13.8	3.5
ANTHROPOLOGY	837	815	738	655	-6.1	-11.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,395	1,388	1,162	1,157	-8.7	-.4
GEOGRAPHY	200	275	193	199	-1.8	3.1
HISTORY AND PHILOSOPHY OF SCIENCE	68	67	57	64	-8.4	12.3
LINGUISTICS	543	383	365	368	-18.0	.8
POLITICAL SCIENCE	2,348	2,719	2,523	2,364	3.7	-6.3
SOCIOLOGY	1,185	1,046	1,002	942	-8.0	-6.0
SOCIOLOGY/ANTHROPOLOGY	106	71	43	56	-36.3	30.2
SOCIAL SCIENCES, N.E.C.	2,901	2,676	2,376	1,983	-9.5	-16.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-15.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	19,948	19,121	17,274	15,042	-6.9	-12.9
ENGINEERING	1,171	1,059	953	978	-9.8	2.6
AEROSPACE	16	28	45	49	67.7	8.9
AGRICULTURAL	9	7	8	0	-5.7	-100.0
BIOMEDICAL	139	113	77	55	-25.6	-28.6
CHEMICAL	139	142	129	157	-3.7	21.7
CIVIL	186	201	130	113	-16.4	-13.1
ELECTRICAL	132	111	110	128	-8.7	16.4
ENGINEERING SCIENCE	33	37	92	107	67.0	16.3
INDUSTRIAL	142	54	72	67	-28.8	-6.9
MECHANICAL	98	89	81	96	-9.1	18.5
METALLURGICAL/MATERIALS	114	104	74	77	-19.4	4.1
MINING	98	67	50	20	-28.6	-60.0
NUCLEAR	18	28	29	45	26.9	55.2
PETROLEUM	9	23	7	10	-11.8	42.9
ENGINEERING, N.E.C.	38	55	49	54	13.6	10.2
PHYSICAL SCIENCES	605	538	532	485	-6.2	-8.8
ASTRONOMY	19	24	13	11	-17.3	-15.4
CHEMISTRY	418	351	374	341	-5.4	-8.8
PHYSICS	168	156	144	132	-7.4	-8.3
PHYSICAL SCIENCES, N.E.C.	0	7	1	1	**	.0
ENVIRONMENTAL SCIENCES	468	442	341	274	-14.6	-19.6
ATMOSPHERIC SCIENCES	14	13	9	9	-19.8	.0
GEOSCIENCES	264	296	208	145	-11.2	-30.3
OCEANOGRAPHY	60	58	50	59	-8.7	18.0
ENVIRONMENTAL SCIENCES, N.E.C.	130	75	74	61	-24.6	-17.6
MATHEMATICAL/COMPUTER SCIENCES	235	241	170	169	-14.9	-.6
COMPUTER SCIENCE	77	99	70	69	-4.7	-1.4
MATHEMATICS AND APPLIED MATHEMATICS	133	127	91	86	-17.3	-5.5
STATISTICS	25	15	9	14	-40.0	55.6
LIFE SCIENCES	12,421	12,140	11,330	9,979	-4.5	-11.9
AGRICULTURAL SCIENCES	173	165	139	157	-11.7	16.3
BIOLOGICAL SCIENCES	5,214	4,871	4,645	4,449	-5.6	-4.2
ANATOMY	159	138	143	115	-5.2	-19.6
BIOCHEMISTRY	679	659	604	595	-5.7	-1.5
BIOLOGY	957	841	803	763	-8.4	-5.0
BIOMETRY/EPIDEMIOLOGY	283	303	332	273	8.3	-17.8
BIOPHYSICS	177	154	122	124	-17.0	1.6
BOTANY	61	54	64	38	4.0	-42.4
CELL BIOLOGY	289	336	364	386	12.2	6.0
ECOLOGY	23	41	45	35	39.9	-22.2
ENTOMOLOGY/PARASITOLOGY	34	47	32	35	-3.0	9.4
GENETICS	280	256	215	229	-12.4	6.5
MICROBIOLOGY	655	548	439	484	-18.1	10.3
NUTRITION	185	161	124	125	-18.1	.8
PATHOLOGY	209	213	200	191	-2.2	-4.5
PHARMACOLOGY	620	596	585	558	-2.9	-4.6
PHYSIOLOGY	377	338	336	289	-5.6	-14.0
ZOOLOGY	131	98	113	96	-7.1	-15.0
BIOSCIENCES, N.E.C.	95	88	122	113	13.3	-7.4
HEALTH SCIENCES	7,034	7,104	6,550	5,373	-3.5	-18.0
ANESTHESIOLOGY	0	0	0	0	**	**
CANCER/ONCOLOGY	33	33	0	42	-100.0	**
CARDIOLOGY	1	1	0	3	-100.0	**
DENTISTRY	77	60	39	58	-28.8	48.7
ENDOCRINOLOGY	7	8	10	12	19.5	20.0
GASTROENTEROLOGY	0	0	0	1	**	**
HEMATOLOGY	0	0	2	0	**	-100.0
NEUROLOGY	142	135	124	112	-6.6	-9.7
NURSING	3,512	3,595	3,601	3,055	1.3	-15.2
OBSTETRICS/GYNECOLOGY	12	2	2	3	-59.2	50.0
OPHTHALMOLOGY	2	10	4	0	41.4	-100.0
OTORHINOLARYNGOLOGY	4	2	2	1	-29.3	-50.0
PEDIATRICS	58	55	73	40	12.2	-45.2
PHARMACEUTICAL SCIENCES	101	83	87	72	-7.2	-17.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,663	1,739	1,559	1,027	-3.2	-34.1
PSYCHIATRY	25	9	6	9	-51.0	50.0
PULMONARY DISEASE	0	2	3	4	**	33.3
RADIOLOGY	49	47	56	62	6.9	10.7
SPEECH PATHOLOGY/AUDIOLOGY	704	654	537	472	-12.7	-12.1
SURGERY	1	3	9	5	200.0	-44.4
VETERINARY SCIENCES	22	18	14	22	-20.2	57.1
CLINICAL MEDICINE, N.E.C.	32	51	30	49	-3.2	63.3
HEALTH RELATED, N.E.C.	589	597	392	324	-18.4	-17.3
PSYCHOLOGY	2,007	1,838	1,496	1,142	-13.7	-23.7
SOCIAL SCIENCES	3,041	2,863	2,492	2,015	-10.2	-17.8
AGRICULTURAL ECONOMICS	40	50	56	48	18.3	-14.3
ANTHROPOLOGY	278	261	222	176	-10.6	-20.7
ECONOMICS (EXCEPT AGRICULTURAL)	193	196	169	120	-6.4	-29.0
GEOGRAPHY	31	35	23	30	-13.9	30.4
HISTORY AND PHILOSOPHY OF SCIENCE	13	14	4	9	-44.5	125.0
LINGUISTICS	77	79	89	73	7.5	-18.0
POLITICAL SCIENCE	608	494	418	400	-17.1	-4.3
SOCIOLOGY	365	314	269	230	-14.2	-14.5
SOCIOLOGY/ANTHROPOLOGY	31	29	5	5	-59.8	.0
SOCIAL SCIENCES, N.E.C.	1,405	1,391	1,197	924	-7.7	-22.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-16.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	20,352	20,937	21,420	22,158	2.6	3.4
ENGINEERING	3,308	3,658	4,194	4,557	12.6	8.7
AEROSPACE	74	77	85	98	7.2	15.3
AGRICULTURAL	62	77	39	70	-20.7	79.5
BIOMEDICAL	55	40	66	66	9.5	.0
CHEMICAL	562	588	677	871	9.8	28.7
CIVIL	581	620	717	704	11.1	-1.8
ELECTRICAL	629	760	989	1,035	25.4	4.7
ENGINEERING SCIENCE	137	141	127	130	-3.7	2.4
INDUSTRIAL	221	235	233	265	2.7	13.7
MECHANICAL	464	505	558	612	9.7	9.7
METALLURGICAL/MATERIALS	165	222	236	253	19.6	7.2
MINING	28	35	42	32	22.5	-23.8
NUCLEAR	106	131	114	113	3.7	-.9
PETROLEUM	68	66	66	92	-1.5	39.4
ENGINEERING, N.E.C.	156	161	245	216	25.3	-11.8
PHYSICAL SCIENCES	1,725	1,674	1,769	1,840	1.3	4.0
ASTRONOMY	76	79	59	76	-11.9	28.8
CHEMISTRY	1,042	952	1,041	1,034	*	-.7
PHYSICS	601	639	665	722	5.2	8.6
PHYSICAL SCIENCES, N.E.C.	6	4	4	8	-18.4	100.0
ENVIRONMENTAL SCIENCES	623	661	755	859	10.1	13.8
ATMOSPHERIC SCIENCES	27	17	13	24	-30.6	84.6
GEOSCIENCES	414	468	527	625	12.8	18.6
OCEANOGRAPHY	97	110	127	152	14.4	19.7
ENVIRONMENTAL SCIENCES, N.E.C.	85	66	88	58	1.7	-34.1
MATHEMATICAL/COMPUTER SCIENCES	1,145	1,029	1,135	1,118	-.4	-1.5
COMPUTER SCIENCE	355	289	429	438	9.9	2.1
MATHEMATICS AND APPLIED MATHEMATICS	656	586	605	586	-4.0	-3.1
STATISTICS	134	154	101	94	-13.2	-6.9
LIFE SCIENCES	5,073	5,352	5,599	5,908	5.1	5.5
AGRICULTURAL SCIENCES	565	620	699	654	11.2	-6.4
BIOLOGICAL SCIENCES	3,080	3,351	3,360	3,508	4.4	3.5
ANATOMY	138	156	157	148	6.7	-5.7
BIOCHEMISTRY	388	364	386	389	-.3	.8
BIOLOGY	666	672	567	544	-7.7	-4.1
BIOMETRY/EPIDEMIOLOGY	63	61	98	115	24.7	17.3
BIOPHYSICS	38	28	53	37	18.1	-30.2
BOTANY	206	177	158	193	-12.4	22.2
CELL BIOLOGY	89	124	97	174	4.4	79.4
ECOLOGY	59	78	81	76	17.2	-6.2
ENTOMOLOGY/PARASITOLOGY	96	107	134	114	18.1	-14.9
GENETICS	56	93	79	75	18.8	-5.1
MICROBIOLOGY	338	392	401	397	8.9	-1.0
NUTRITION	194	224	237	253	10.5	6.8
PATHOLOGY	156	156	218	173	18.2	-20.6
PHARMACOLOGY	242	276	307	329	12.6	7.2
PHYSIOLOGY	184	224	193	191	2.4	-1.0
ZOOLOGY	68	102	85	112	11.8	31.8
BIOSCIENCES, N.E.C.	99	117	109	158	4.9	45.0
HEALTH SCIENCES	1,428	1,381	1,540	1,776	3.8	15.3
ANESTHESIOLOGY	3	0	1	2	-42.3	100.0
CANCER/ONCOLOGY	1	1	0	1	-100.0	**
CARDIOLOGY	0	10	0	0	**	**
DENTISTRY	107	90	130	166	10.2	27.7
ENDOCRINOLOGY	13	12	10	18	-12.3	80.0
GASTROENTEROLOGY	0	0	2	6	**	200.0
HEMATOLOGY	5	1	0	1	-100.0	**
NEUROLOGY	65	45	53	51	-9.7	-3.8
NURSING	218	168	153	241	-16.2	57.5
OBSTETRICS/GYNECOLOGY	8	0	4	2	-29.3	-50.0
OPHTHALMOLOGY	0	0	2	2	**	.0
OTORHINOLARYNGOLOGY	10	9	10	11	.0	10.0
PEDIATRICS	10	18	19	22	37.8	15.8
PHARMACEUTICAL SCIENCES	144	157	186	170	13.7	-8.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	158	221	269	315	30.5	17.1
PSYCHIATRY	24	28	19	35	-11.0	84.2
PULMONARY DISEASE	0	11	6	5	**	-16.7
RADIOLOGY	38	28	53	48	18.1	-9.4
SPEECH PATHOLOGY/AUDIOLOGY	307	272	332	350	4.0	5.4
SURGERY	35	38	51	48	20.7	-5.9
VETERINARY SCIENCES	58	67	43	48	-13.9	11.6
CLINICAL MEDICINE, N.E.C.	89	76	83	92	-3.4	10.8
HEALTH RELATED, N.E.C.	135	129	114	142	-8.1	24.6
PSYCHOLOGY	1,783	1,770	1,763	1,898	-.6	7.7
SOCIAL SCIENCES	6,695	6,793	6,205	5,978	-3.7	-3.7
AGRICULTURAL ECONOMICS	113	166	142	157	12.1	10.6
ANTHROPOLOGY	559	554	516	479	-3.9	-7.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,202	1,192	993	1,037	-9.1	4.4
GEOGRAPHY	169	240	170	169	.3	-.6
HISTORY AND PHILOSOPHY OF SCIENCE	55	53	53	55	-1.8	3.8
LINGUISTICS	466	304	276	295	-23.0	6.9
POLITICAL SCIENCE	1,740	2,225	2,105	1,964	10.0	-6.7
SOCIOLOGY	820	732	733	712	-5.5	-2.9
SOCIOLOGY/ANTHROPOLOGY	75	42	38	51	-28.8	34.2
SOCIAL SCIENCES, N.E.C.	1,496	1,285	1,179	1,059	-11.2	-10.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-17.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	49,425	51,954	53,146	53,294	3.7	0.3
ENGINEERING	12,945	14,049	14,531	14,730	5.9	1.4
AEROSPACE	503	580	583	617	7.7	5.8
AGRICULTURAL	347	362	398	427	7.1	7.3
BIOMEDICAL	208	215	253	304	10.3	20.2
CHEMICAL	1,627	1,845	2,018	2,099	11.4	4.0
CIVIL	2,036	2,222	2,233	2,117	4.7	-5.2
ELECTRICAL	2,596	2,851	2,891	2,950	5.5	2.0
ENGINEERING SCIENCE	444	457	510	524	7.2	2.7
INDUSTRIAL	561	590	546	561	-1.3	2.7
MECHANICAL	1,967	2,052	2,138	2,209	4.3	3.3
METALLURGICAL/MATERIALS	1,320	1,390	1,558	1,522	8.6	-2.3
MINING	79	120	161	141	42.8	-12.4
NUCLEAR	536	508	480	412	-5.4	-14.2
PETROLEUM	118	104	118	100	.0	-15.3
ENGINEERING, N.E.C.	603	753	644	747	3.3	16.0
PHYSICAL SCIENCES	7,794	8,340	8,606	8,780	5.1	2.0
ASTRONOMY	272	270	263	250	-1.7	-4.9
CHEMISTRY	4,165	4,604	4,797	4,911	7.3	2.4
PHYSICS	3,341	3,462	3,531	3,588	2.8	1.6
PHYSICAL SCIENCES, N.E.C.	16	4	15	31	-3.2	106.7
ENVIRONMENTAL SCIENCES	3,562	3,731	3,427	3,334	-1.9	-2.7
ATMOSPHERIC SCIENCES	485	499	461	468	-2.5	1.5
GEOSCIENCES	1,906	2,005	1,809	1,773	-2.6	-2.0
OCEANOGRAPHY	816	818	791	780	-1.5	-1.4
ENVIRONMENTAL SCIENCES, N.E.C.	355	409	366	313	1.5	-14.5
MATHEMATICAL/COMPUTER SCIENCES	1,642	1,814	1,855	2,080	6.3	12.1
COMPUTER SCIENCE	869	1,073	1,111	1,291	13.1	16.2
MATHEMATICS AND APPLIED MATHEMATICS	482	457	468	491	-1.5	4.9
STATISTICS	291	284	276	298	-2.6	8.0
LIFE SCIENCES	15,422	15,915	16,364	16,401	3.0	.2
AGRICULTURAL SCIENCES	4,462	4,565	4,670	4,647	2.3	-.5
BIOLOGICAL SCIENCES	9,479	9,759	10,107	10,096	3.3	-.1
ANATOMY	163	142	138	142	-8.0	2.9
BIOCHEMISTRY	1,483	1,452	1,546	1,644	2.1	6.3
BIOLOGY	1,371	1,504	1,613	1,480	8.5	-8.2
BIOMETRY/EPIDEMIOLOGY	88	117	100	99	6.6	-1.0
BIOPHYSICS	174	161	124	133	-15.6	7.3
BOTANY	1,261	1,267	1,240	1,309	-.8	5.6
CELL BIOLOGY	179	180	232	265	13.8	14.2
ECOLOGY	254	272	221	233	-6.7	5.4
ENTOMOLOGY/PARASITOLOGY	819	890	806	764	-.8	-5.2
GENETICS	191	235	252	260	14.9	3.2
MICROBIOLOGY	897	945	1,051	1,088	8.2	3.5
NUTRITION	1,080	1,152	1,140	1,090	2.7	-4.4
PATHOLOGY	178	178	177	223	-.3	26.0
PHARMACOLOGY	389	349	438	410	6.1	-6.4
PHYSIOLOGY	393	417	461	432	8.3	-6.3
ZOOLOGY	461	383	440	380	-4.4	-13.6
BIOSCIENCES, N.E.C.	78	115	128	144	28.1	12.5
HEALTH SCIENCES	1,481	1,591	1,587	1,658	3.5	4.5
ANESTHESIOLOGY	0	0	0	0	**	**
CANCER/ONCOLOGY	10	9	0	12	-100.0	**
CARDIOLOGY	2	6	3	0	22.5	-100.0
DENTISTRY	26	28	11	12	-35.0	9.1
ENDOCRINOLOGY	7	10	12	10	30.9	-16.7
GASTROENTEROLOGY	0	0	1	0	**	-100.0
HEMATOLOGY	0	1	1	0	**	-100.0
NEUROLOGY	78	79	56	92	-15.3	64.3
NURSING	75	103	110	132	21.1	20.0
OBSTETRICS/GYNECOLOGY	8	0	0	8	-100.0	**
OPHTHALMOLOGY	0	3	7	11	**	57.1
OTORHINOLARYNGOLOGY	4	0	3	4	-13.4	33.3
PEDIATRICS	0	0	0	6	**	**
PHARMACEUTICAL SCIENCES	395	403	408	377	1.6	-7.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	164	187	234	204	19.4	-12.8
PSYCHIATRY	20	8	14	5	-16.3	-64.3
PULMONARY DISEASE	0	0	0	1	**	**
RADIOLOGY	31	45	26	35	-8.4	34.6
SPEECH PATHOLOGY/AUDIOLOGY	289	337	286	331	-.5	15.7
SURGERY	0	4	8	4	**	-50.0
VETERINARY SCIENCES	172	157	178	166	1.7	-6.7
CLINICAL MEDICINE, N.E.C.	37	41	42	61	6.5	45.2
HEALTH RELATED, N.E.C.	163	170	187	187	7.1	.0
PSYCHOLOGY	2,520	2,565	2,887	2,736	7.0	-5.2
SOCIAL SCIENCES	5,540	5,540	5,476	5,233	-.6	-4.4
AGRICULTURAL ECONOMICS	982	986	949	861	-1.7	-9.3
ANTHROPOLOGY	402	349	303	315	-13.2	4.0
ECONOMICS (EXCEPT AGRICULTURAL)	1,204	1,205	1,184	1,081	-.8	-8.7
GEOGRAPHY	226	276	253	227	5.8	-10.3
HISTORY AND PHILOSOPHY OF SCIENCE	11	14	16	11	20.6	-31.3
LINGUISTICS	139	141	181	130	14.1	-28.2
POLITICAL SCIENCE	931	875	909	947	-1.2	4.2
SOCIOLOGY	767	761	785	671	1.2	-14.5
SOCIOLOGY/ANTHROPOLOGY	104	88	127	133	10.5	4.7
SOCIAL SCIENCES, N.E.C.	774	845	769	857	-.3	11.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-18.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	28,129	29,395	29,208	28,497	1.9	-2.4
ENGINEERING	8,030	8,559	8,549	8,609	3.2	.7
AEROSPACE	355	375	399	469	6.0	17.5
AGRICULTURAL	114	110	131	138	7.2	5.3
BIOMEDICAL	129	110	123	168	-2.4	36.6
CHEMICAL	910	1,056	1,091	1,084	9.5	-.6
CIVIL	1,117	1,251	1,088	1,074	-1.3	-1.3
ELECTRICAL	1,878	1,982	1,971	2,061	2.4	4.6
ENGINEERING SCIENCE	356	373	393	356	5.1	-9.4
INDUSTRIAL	230	257	236	188	1.3	-20.3
MECHANICAL	1,273	1,240	1,283	1,277	.4	-.5
METALLURGICAL/MATERIALS	1,013	1,017	1,132	1,067	5.7	-5.7
MINING	59	87	109	76	35.9	-30.3
NUCLEAR	260	233	238	223	-4.3	-6.3
PETROLEUM	40	44	45	37	6.1	-17.8
ENGINEERING, N.E.C.	296	424	310	391	2.3	26.1
PHYSICAL SCIENCES	6,505	6,980	7,270	7,106	5.7	-2.3
ASTRONOMY	225	236	229	202	.9	-11.8
CHEMISTRY	3,328	3,762	3,880	3,938	8.0	1.5
PHYSICS	2,943	2,978	3,159	2,962	3.6	-6.2
PHYSICAL SCIENCES, N.E.C.	9	4	2	4	-52.9	100.0
ENVIRONMENTAL SCIENCES	2,697	2,694	2,390	2,320	-5.9	-2.9
ATMOSPHERIC SCIENCES	459	455	411	414	-5.4	.7
GEOSCIENCES	1,415	1,441	1,190	1,177	-8.3	-1.1
OCEANOGRAPHY	610	589	553	543	-4.8	-1.8
ENVIRONMENTAL SCIENCES, N.E.C.	213	209	236	186	5.3	-21.2
MATHEMATICAL/COMPUTER SCIENCES	1,005	1,096	1,055	1,146	2.5	8.6
COMPUTER SCIENCE	623	717	729	809	8.2	11.0
MATHEMATICS AND APPLIED MATHEMATICS	271	260	244	234	-5.1	-4.1
STATISTICS	111	119	82	103	-14.1	25.6
LIFE SCIENCES	7,230	7,636	7,608	7,386	2.6	-2.9
AGRICULTURAL SCIENCES	1,480	1,570	1,479	1,450	*	-2.0
BIOLOGICAL SCIENCES	5,093	5,416	5,464	5,309	3.6	-2.8
ANATOMY	77	80	78	83	.6	6.4
BIOCHEMISTRY	1,036	1,030	1,125	1,170	4.2	4.0
BIOLOGY	887	1,005	982	902	5.2	-8.1
BIOMETRY/EPIDEMIOLOGY	53	81	63	50	9.0	-20.6
BIOPHYSICS	126	106	95	85	-13.2	-10.5
BOTANY	504	536	449	507	-5.6	12.9
CELL BIOLOGY	137	142	177	201	13.7	13.6
ECOLOGY	141	148	112	111	-10.9	-.9
ENTOMOLOGY/PARASITOLOGY	215	287	258	218	9.5	-15.5
GENETICS	92	127	121	121	14.7	.0
MICROBIOLOGY	626	674	697	665	5.5	-4.6
NUTRITION	409	439	434	399	3.0	-8.1
PATHOLOGY	84	91	103	113	10.7	9.7
PHARMACOLOGY	197	171	215	188	4.5	-12.6
PHYSIOLOGY	191	225	273	226	19.6	-17.2
ZOOLOGY	287	241	220	199	-12.4	-9.5
BIOSCIENCES, N.E.C.	31	33	62	71	41.4	14.5
HEALTH SCIENCES	657	650	665	627	.6	-5.7
ANESTHESIOLOGY	0	0	0	0	**	**
CANCER/ONCOLOGY	10	9	0	12	-100.0	**
CARDIOLOGY	2	3	0	0	-100.0	**
DENTISTRY	9	5	8	0	-5.7	-100.0
ENDOCRINOLOGY	6	10	12	10	41.4	-16.7
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	59	53	40	64	-17.7	60.0
NURSING	36	35	48	32	15.5	-33.3
OBSTETRICS/GYNECOLOGY	6	0	0	6	-100.0	**
OPHTHALMOLOGY	0	0	7	11	**	57.1
OTORHINOLARYNGOLOGY	4	0	3	4	-13.4	33.3
PEDIATRICS	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	183	195	219	200	9.4	-8.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	92	75	44	-4.4	-41.3
PSYCHIATRY	20	7	11	5	-25.8	-54.5
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	18	25	16	19	-5.7	18.8
SPEECH PATHOLOGY/AUDIOLOGY	118	126	117	112	-.4	-4.3
SURGERY	0	2	7	2	**	-71.4
VETERINARY SCIENCES	54	44	54	43	.0	-20.4
CLINICAL MEDICINE, N.E.C.	14	11	8	30	-24.4	275.0
HEALTH RELATED, N.E.C.	36	33	40	33	5.4	-17.5
PSYCHOLOGY	1,168	939	1,035	933	-5.9	-9.9
SOCIAL SCIENCES	1,494	1,491	1,301	997	-6.7	-23.4
AGRICULTURAL ECONOMICS	339	388	371	314	4.6	-15.4
ANTHROPOLOGY	140	105	123	90	-6.3	-26.8
ECONOMICS (EXCEPT AGRICULTURAL)	290	286	181	126	-21.0	-30.4
GEOGRAPHY	70	85	72	66	1.4	-8.3
HISTORY AND PHILOSOPHY OF SCIENCE	2	1	0	0	-100.0	**
LINGUISTICS	44	45	50	33	6.6	-34.0
POLITICAL SCIENCE	103	89	42	58	-36.1	38.1
SOCIOLOGY	306	315	316	197	1.6	-37.7
SOCIOLOGY/ANTHROPOLOGY	18	17	10	10	-25.5	.0
SOCIAL SCIENCES, N.E.C.	182	160	136	103	-13.6	-24.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-19.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	21,296	22,559	23,938	24,797	6.0	3.6
ENGINEERING	4,915	5,490	5,982	6,121	10.3	2.3
AEROSPACE	140	205	184	148	11.5	-19.6
AGRICULTURAL	233	252	267	289	7.0	8.2
BIOMEDICAL	79	105	130	136	28.3	4.6
CHEMICAL	717	789	927	1,015	13.7	9.5
CIVIL	919	971	1,145	1,043	11.6	-8.9
ELECTRICAL	718	869	920	889	13.2	-3.4
ENGINEERING SCIENCE	88	84	117	168	15.3	43.6
INDUSTRIAL	331	333	310	373	-3.2	20.3
MECHANICAL	694	812	855	932	11.0	9.0
METALLURGICAL/MATERIALS	307	373	426	455	17.8	6.8
MINING	20	33	52	65	61.2	25.0
NUCLEAR	276	275	242	189	-6.4	-21.9
PETROLEUM	78	60	73	63	-3.3	-13.7
ENGINEERING, N.E.C.	307	329	334	356	4.3	6.6
PHYSICAL SCIENCES	1,289	1,360	1,336	1,674	1.8	25.3
ASTRONOMY	47	34	34	48	-14.9	41.2
CHEMISTRY	837	842	917	973	4.7	6.1
PHYSICS	398	484	372	626	-3.3	68.3
PHYSICAL SCIENCES, N.E.C.	7	0	13	27	36.3	107.7
ENVIRONMENTAL SCIENCES	865	1,037	1,037	1,014	9.5	-2.2
ATMOSPHERIC SCIENCES	26	44	50	54	38.7	8.0
GEOSCIENCES	491	564	619	596	12.3	-3.7
OCEANOGRAPHY	206	229	238	237	7.5	-.4
ENVIRONMENTAL SCIENCES, N.E.C.	142	200	130	127	-4.3	-2.3
MATHEMATICAL/COMPUTER SCIENCES	637	718	800	934	12.1	16.7
COMPUTER SCIENCE	246	356	382	482	24.6	26.2
MATHEMATICS AND APPLIED MATHEMATICS	211	197	224	257	3.0	14.7
STATISTICS	180	165	194	195	3.8	.5
LIFE SCIENCES	8,192	8,279	8,756	9,015	3.4	3.0
AGRICULTURAL SCIENCES	2,982	2,995	3,191	3,197	3.4	.2
BIOLOGICAL SCIENCES	4,386	4,343	4,643	4,787	2.9	3.1
ANATOMY	86	62	60	59	-16.5	-1.7
BIOCHEMISTRY	447	422	421	474	-3.0	12.6
BIOLOGY	484	499	631	578	14.2	-8.4
BIOMETRY/EPIDEMIOLOGY	35	36	37	49	2.8	32.4
BIOPHYSICS	48	55	29	48	-22.3	65.5
BOTANY	757	731	791	802	2.2	1.4
CELL BIOLOGY	42	38	55	64	14.4	16.4
ECOLOGY	113	124	109	122	-1.8	11.9
ENTOMOLOGY/PARASITOLOGY	604	603	548	546	-4.7	-.4
GENETICS	99	108	131	139	15.0	6.1
MICROBIOLOGY	271	271	354	423	14.3	19.5
NUTRITION	671	713	706	691	2.6	-2.1
PATHOLOGY	94	87	74	110	-11.3	48.6
PHARMACOLOGY	192	178	223	222	7.8	-.4
PHYSIOLOGY	202	192	188	206	-3.5	9.6
ZOOLOGY	194	142	220	181	6.5	-17.7
BIOSCIENCES, N.E.C.	47	82	66	73	18.5	10.6
HEALTH SCIENCES	824	941	922	1,031	5.8	11.8
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	3	3	0	**	-100.0
DENTISTRY	17	23	3	12	-58.0	300.0
ENDOCRINOLOGY	1	0	0	0	-100.0	**
GASTROENTEROLOGY	0	0	1	0	**	-100.0
HEMATOLOGY	0	1	1	0	**	-100.0
NEUROLOGY	19	26	16	28	-8.2	75.0
NURSING	39	48	62	100	26.1	61.3
OBSTETRICS/GYNECOLOGY	2	0	0	2	-100.0	**
OPHTHALMOLOGY	0	3	0	0	**	**
OTORHINOLARYNGOLOGY	0	0	0	0	**	**
PEDIATRICS	0	0	0	6	**	**
PHARMACEUTICAL SCIENCES	212	208	189	177	-5.6	-6.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	82	95	159	160	39.2	.6
PSYCHIATRY	0	1	3	0	**	-100.0
PULMONARY DISEASE	0	0	0	1	**	**
RADIOLOGY	13	20	10	16	-12.3	60.0
SPEECH PATHOLOGY/AUDIOLOGY	171	211	169	219	-.6	29.6
SURGERY	0	2	1	2	**	100.0
VETERINARY SCIENCES	118	113	124	123	2.5	-.8
CLINICAL MEDICINE, N.E.C.	23	30	34	31	21.6	-8.8
HEALTH RELATED, N.E.C.	127	137	147	154	7.6	4.8
PSYCHOLOGY	1,352	1,626	1,852	1,803	17.0	-2.6
SOCIAL SCIENCES	4,046	4,049	4,175	4,236	1.6	1.5
AGRICULTURAL ECONOMICS	643	598	578	547	-5.2	-5.4
ANTHROPOLOGY	262	244	180	225	-17.1	25.0
ECONOMICS (EXCEPT AGRICULTURAL)	914	919	1,003	955	4.8	-4.8
GEOGRAPHY	156	191	181	161	7.7	-11.0
HISTORY AND PHILOSOPHY OF SCIENCE	9	13	16	11	33.3	-31.3
LINGUISTICS	95	96	131	97	17.4	-26.0
POLITICAL SCIENCE	828	786	867	889	2.3	2.5
SOCIOLOGY	461	446	469	474	.9	1.1
SOCIOLOGY/ANTHROPOLOGY	86	71	117	123	16.6	5.1
SOCIAL SCIENCES, N.E.C.	592	685	633	754	3.4	19.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-20.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	52,033	54,134	56,025	58,820	3.8	5.0
ENGINEERING	6,673	7,421	8,314	9,243	11.6	11.2
AEROSPACE	178	189	218	228	10.7	4.6
AGRICULTURAL	56	55	42	45	-13.4	7.1
BIOMEDICAL	93	108	95	90	1.1	-5.3
CHEMICAL	765	835	935	1,048	10.6	12.1
CIVIL	1,140	1,274	1,315	1,511	7.4	14.9
ELECTRICAL	1,880	2,124	2,437	2,588	13.9	6.2
ENGINEERING SCIENCE	153	199	198	216	13.8	9.1
INDUSTRIAL	535	548	629	755	8.4	20.0
MECHANICAL	1,174	1,281	1,451	1,667	11.2	14.9
METALLURGICAL/MATERIALS	197	236	246	258	11.7	4.9
MINING	34	29	57	70	29.5	22.8
NUCLEAR	124	94	105	137	-8.0	30.5
PETROLEUM	37	47	54	62	20.8	14.8
ENGINEERING, N.E.C.	307	402	532	568	31.6	6.8
PHYSICAL SCIENCES	9,948	10,245	10,300	10,741	1.8	4.3
ASTRONOMY	170	174	181	189	3.2	4.4
CHEMISTRY	6,395	6,575	6,480	6,940	.7	7.1
PHYSICS	3,357	3,473	3,612	3,592	3.7	-.6
PHYSICAL SCIENCES, N.E.C.	26	23	27	20	1.9	-25.9
ENVIRONMENTAL SCIENCES	2,595	2,653	2,624	2,819	.6	7.4
ATMOSPHERIC SCIENCES	99	95	84	99	-7.9	17.9
GEOSCIENCES	2,051	2,111	2,078	2,248	.7	8.2
OCEANOGRAPHY	144	162	146	166	.7	13.7
ENVIRONMENTAL SCIENCES, N.E.C.	301	285	316	306	2.5	-3.2
MATHEMATICAL/COMPUTER SCIENCES	6,769	7,080	7,530	8,157	5.5	8.3
COMPUTER SCIENCE	1,372	1,500	1,821	2,111	15.2	15.9
MATHEMATICS AND APPLIED MATHEMATICS	4,811	4,951	5,074	5,410	2.7	6.6
STATISTICS	586	629	635	636	4.1	.2
LIFE SCIENCES	12,428	12,744	12,539	12,972	.4	3.5
AGRICULTURAL SCIENCES	851	924	825	943	-1.5	14.3
BIOLOGICAL SCIENCES	9,562	9,712	9,594	9,734	.2	1.5
ANATOMY	342	301	322	321	-3.0	-.3
BIOCHEMISTRY	609	698	703	663	7.4	-5.7
BIOLOGY	3,909	3,933	3,779	3,857	-1.7	2.1
BIOMETRY/EPIDEMIOLOGY	46	45	55	41	9.3	-25.5
BIOPHYSICS	23	43	35	38	23.4	8.6
BOTANY	910	916	876	920	-1.9	5.0
CELL BIOLOGY	88	93	112	139	12.8	24.1
ECOLOGY	290	304	323	292	5.5	-9.6
ENTOMOLOGY/PARASITOLOGY	162	166	174	155	3.6	-10.9
GENETICS	106	111	119	128	6.0	7.6
MICROBIOLOGY	797	871	893	915	5.9	2.5
NUTRITION	289	286	268	261	-3.7	-2.6
PATHOLOGY	76	80	74	103	-1.3	39.2
PHARMACOLOGY	246	242	244	280	-.4	14.8
PHYSIOLOGY	370	356	361	343	-1.2	-.6
ZOOLOGY	1,242	1,221	1,174	1,158	-2.8	-1.4
BIOSCIENCES, N.E.C.	57	46	82	100	19.9	22.0
HEALTH SCIENCES	2,015	2,108	2,120	2,295	2.6	8.3
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	0	-100.0	**
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	179	192	146	135	-9.7	-7.5
ENDOCRINOLOGY	10	6	6	6	-22.5	.0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	1	0	**	-100.0
NEUROLOGY	26	29	37	35	19.3	-5.4
NURSING	208	210	265	284	12.9	7.2
OBSTETRICS/GYNECOLOGY	1	0	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	3	41.4	-25.0
OTORHINOLARYNGOLOGY	0	0	0	0	**	**
PEDIATRICS	0	1	1	0	**	-100.0
PHARMACEUTICAL SCIENCES	576	575	614	657	3.2	7.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	91	81	81	93	-5.7	14.8
PSYCHIATRY	1	0	0	1	-100.0	**
PULMONARY DISEASE	1	0	0	0	-100.0	**
RADIOLOGY	15	15	5	0	-42.3	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	743	792	742	815	-.1	9.8
SURGERY	0	0	0	12	**	**
VETERINARY SCIENCES	61	56	51	51	-8.6	.0
CLINICAL MEDICINE, N.E.C.	12	20	43	48	89.3	11.6
HEALTH RELATED, N.E.C.	88	130	124	155	18.7	25.0
PSYCHOLOGY	4,562	4,766	5,004	4,958	4.7	-.9
SOCIAL SCIENCES	9,058	9,225	9,714	9,930	3.6	2.2
AGRICULTURAL ECONOMICS	93	110	122	125	14.5	2.5
ANTHROPOLOGY	844	829	866	911	1.3	5.2
ECONOMICS (EXCEPT AGRICULTURAL)	2,192	2,499	2,704	2,914	11.1	7.8
GEOGRAPHY	781	775	897	883	7.2	-1.6
HISTORY AND PHILOSOPHY OF SCIENCE	67	77	68	80	.7	17.6
LINGUISTICS	725	656	690	627	-2.4	-9.1
POLITICAL SCIENCE	2,013	1,853	2,012	1,977	*	-1.7
SOCIOLOGY	1,521	1,568	1,587	1,564	2.1	-1.4
SOCIOLOGY/ANTHROPOLOGY	223	209	195	209	-6.5	7.2
SOCIAL SCIENCES, N.E.C.	599	649	573	640	-2.2	11.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-21.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	609	680	622	438	1.1	-29.6
ENGINEERING	67	141	101	40	22.8	-60.4
AEROSPACE	15	0	19	1	12.5	-94.7
AGRICULTURAL	0	10	3	0	**	-100.0
BIOMEDICAL	0	1	0	0	**	**
CHEMICAL	13	44	31	8	54.4	-74.2
CIVIL	14	46	12	15	-7.4	25.0
ELECTRICAL	1	20	6	2	144.9	-66.7
ENGINEERING SCIENCE	4	0	2	2	-29.3	.0
INDUSTRIAL	3	3	10	1	82.6	-90.0
MECHANICAL	4	9	8	5	41.4	-37.5
METALLURGICAL/MATERIALS	7	0	0	0	-100.0	**
MINING	0	1	6	3	**	-50.0
NUCLEAR	0	3	0	0	**	**
PETROLEUM	3	0	0	1	-100.0	**
ENGINEERING, N.E.C.	3	4	4	2	15.5	-50.0
PHYSICAL SCIENCES	71	63	51	46	-15.2	-9.8
ASTRONOMY	1	0	8	1	182.8	-87.5
CHEMISTRY	57	50	22	28	-37.9	27.3
PHYSICS	12	13	21	17	32.3	-19.0
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	31	29	16	10	-28.2	-37.5
ATMOSPHERIC SCIENCES	1	6	0	0	-100.0	**
GEOSCIENCES	26	19	15	8	-24.0	-46.7
OCEANOGRAPHY	3	3	0	0	-100.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	1	1	1	2	.0	100.0
MATHEMATICAL/COMPUTER SCIENCES	13	27	44	47	84.0	6.8
COMPUTER SCIENCE	1	3	1	28	.0	2700.0
MATHEMATICS AND APPLIED MATHEMATICS	10	24	43	19	107.4	-55.8
STATISTICS	2	0	0	0	-100.0	**
LIFE SCIENCES	333	280	266	169	-10.6	-36.5
AGRICULTURAL SCIENCES	8	24	10	8	11.8	-20.0
BIOLOGICAL SCIENCES	184	127	142	76	-12.2	-46.5
ANATOMY	5	3	9	1	34.2	-88.9
BIOCHEMISTRY	33	31	25	11	-13.0	-56.0
BIOLOGY	82	19	31	19	-38.5	-38.7
BIOMETRY/EPIDEMIOLOGY	0	1	2	0	**	-100.0
BIOPHYSICS	0	5	0	1	**	**
BOTANY	15	12	11	4	-14.4	-63.6
CELL BIOLOGY	0	4	3	0	**	-100.0
ECOLOGY	0	0	7	2	**	-71.4
ENTOMOLOGY/PARASITOLOGY	2	1	3	1	22.5	-66.7
GENETICS	2	3	0	0	-100.0	**
MICROBIOLOGY	8	25	14	14	32.3	.0
NUTRITION	3	5	4	4	15.5	.0
PATHOLOGY	3	1	0	0	-100.0	**
PHARMACOLOGY	22	12	16	12	-14.7	-25.0
PHYSIOLOGY	4	1	5	7	11.8	40.0
ZOOLOGY	2	2	11	0	134.5	-100.0
BIOSCIENCES, N.E.C.	3	2	1	0	-42.3	-100.0
HEALTH SCIENCES	141	129	114	85	-10.1	-25.4
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	19	20	7	5	-39.3	-28.6
ENDOCRINOLOGY	0	0	0	0	**	**
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0
NEUROLOGY	0	1	0	0	**	**
NURSING	36	22	34	34	-2.8	.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0
PEDIATRICS	0	1	1	0	**	-100.0
PHARMACEUTICAL SCIENCES	8	11	13	2	27.5	-84.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	12	4	4	6	-42.3	50.0
PSYCHIATRY	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	42	47	39	27	-3.6	-30.8
SURGERY	0	0	0	0	**	**
VETERINARY SCIENCES	11	6	5	1	-32.6	-80.0
CLINICAL MEDICINE, N.E.C.	0	8	5	8	**	60.0
HEALTH RELATED, N.E.C.	13	9	6	2	-32.1	-66.7
PSYCHOLOGY	43	49	44	39	22.0	-7.8
SOCIAL SCIENCES	51	91	80	67	25.2	-16.3
AGRICULTURAL ECONOMICS	1	1	4	0	100.0	-100.0
ANTHROPOLOGY	7	5	1	3	-62.2	200.0
ECONOMICS (EXCEPT AGRICULTURAL)	1	19	15	12	287.3	-20.0
GEOGRAPHY	11	8	1	9	-69.8	800.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	4	0	2	**	**
LINGUISTICS	3	3	6	1	41.4	-83.3
POLITICAL SCIENCE	10	22	13	6	14.0	-53.8
SOCIOLOGY	8	5	19	19	54.1	.0
SOCIOLOGY/ANTHROPOLOGY	3	6	0	5	-100.0	**
SOCIAL SCIENCES, N.E.C.	7	18	21	10	73.2	-52.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-22.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	51,424	53,454	55,403	58,382	3.8	5.4
ENGINEERING	6,606	7,280	8,213	9,203	11.5	12.1
AEROSPACE	163	189	199	227	10.5	14.1
AGRICULTURAL	56	45	39	45	-16.5	15.4
BIOMEDICAL	93	107	95	90	1.1	-5.3
CHEMICAL	752	795	904	1,040	9.6	15.0
CIVIL	1,126	1,228	1,303	1,496	7.6	14.8
ELECTRICAL	1,879	2,104	2,431	2,586	13.7	6.4
ENGINEERING SCIENCE	149	199	196	214	14.7	9.2
INDUSTRIAL	532	545	619	754	7.9	21.8
MECHANICAL	1,170	1,272	1,443	1,662	11.1	15.2
METALLURGICAL/MATERIALS	190	236	246	258	13.8	4.9
MINING	34	28	51	67	22.5	31.4
NUCLEAR	124	91	105	137	-8.0	30.5
PETROLEUM	34	47	54	61	26.0	13.0
ENGINEERING, N.E.C.	304	398	528	566	31.8	7.2
PHYSICAL SCIENCES	9,877	10,182	10,249	10,695	1.9	4.4
ASTRONOMY	169	174	173	188	1.2	8.7
CHEMISTRY	6,338	6,525	6,458	6,912	.9	7.0
PHYSICS	3,345	3,460	3,591	3,575	3.6	-.4
PHYSICAL SCIENCES, N.E.C.	25	23	27	20	3.9	-25.9
ENVIRONMENTAL SCIENCES	2,564	2,624	2,608	2,809	.9	7.7
ATMOSPHERIC SCIENCES	98	89	84	99	-7.4	17.9
GEOSCIENCES	2,025	2,092	2,063	2,240	.9	8.6
OCEANOGRAPHY	141	159	146	166	1.8	13.7
ENVIRONMENTAL SCIENCES, N.E.C.	300	284	315	304	2.5	-3.5
MATHEMATICAL/COMPUTER SCIENCES	6,756	7,053	7,486	8,110	5.3	8.3
COMPUTER SCIENCE	1,371	1,497	1,820	2,083	15.2	14.5
MATHEMATICS AND APPLIED MATHEMATICS	4,801	4,927	5,031	5,391	2.4	7.2
STATISTICS	584	629	635	636	4.3	.2
LIFE SCIENCES	12,095	12,464	12,273	12,803	.7	4.3
AGRICULTURAL SCIENCES	843	900	815	935	-1.7	14.7
BIOLOGICAL SCIENCES	9,378	9,585	9,452	9,658	.4	2.2
ANATOMY	337	298	313	320	-3.6	2.2
BIOCHEMISTRY	576	667	678	652	8.5	-3.8
BIOLOGY	3,827	3,914	3,748	3,838	-1.0	2.4
BIOMETRY/EPIDEMIOLOGY	46	44	53	41	7.3	-22.6
BIOPHYSICS	23	38	35	37	23.4	5.7
BOTANY	895	904	865	916	-1.7	5.9
CELL BIOLOGY	88	89	109	139	11.3	27.5
ECOLOGY	290	304	316	290	4.4	-8.2
ENTOMOLOGY/PARASITOLOGY	160	165	171	154	3.4	-9.9
GENETICS	104	108	119	128	7.0	7.6
MICROBIOLOGY	789	846	879	901	5.5	2.5
NUTRITION	286	281	264	257	-3.9	-2.7
PATHOLOGY	73	79	74	103	.7	39.2
PHARMACOLOGY	224	230	228	268	.9	17.5
PHYSIOLOGY	366	355	356	356	-1.4	.0
ZOOLOGY	1,240	1,219	1,163	1,158	-3.2	-.4
BIOSCIENCES, N.E.C.	54	44	81	100	22.5	23.5
HEALTH SCIENCES	1,874	1,979	2,006	2,210	3.5	10.2
ANESTHESIOLOGY	0	0	0	0	0	0
CANCER/ONCOLOGY	1	1	0	0	-100.0	**
CARDIOLOGY	0	0	0	0	0	0
DENTISTRY	160	172	139	130	-6.8	-6.5
ENDOCRINOLOGY	10	6	6	6	-22.5	.0
GASTROENTEROLOGY	0	0	0	0	0	0
HEMATOLOGY	0	0	1	0	**	-100.0
NEUROLOGY	26	28	37	35	19.3	-5.4
NURSING	172	188	231	250	15.9	8.2
OBSTETRICS/GYNECOLOGY	1	0	0	0	-100.0	**
OPHTHALMOLOGY	2	0	4	3	41.4	-25.0
OTORHINOLARYNGOLOGY	0	0	0	0	**	**
PEDIATRICS	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	568	564	601	655	2.9	9.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	79	77	77	87	-1.3	13.0
PSYCHIATRY	1	0	0	1	-100.0	**
PULMONARY DISEASE	1	0	0	0	-100.0	**
RADIOLOGY	15	15	5	0	-42.3	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	701	745	703	788	.1	12.1
SURGERY	0	0	0	12	**	**
VETERINARY SCIENCES	50	50	46	50	-4.1	8.7
CLINICAL MEDICINE, N.E.C.	12	12	38	40	78.0	5.3
HEALTH RELATED, N.E.C.	75	121	118	153	25.4	29.7
PSYCHOLOGY	4,519	4,717	4,940	4,899	4.6	-.8
SOCIAL SCIENCES	9,007	9,134	9,634	9,863	3.4	2.4
AGRICULTURAL ECONOMICS	92	109	118	125	13.3	5.9
ANTHROPOLOGY	837	824	865	908	1.7	5.0
ECONOMICS (EXCEPT AGRICULTURAL)	2,191	2,480	2,689	2,902	10.8	7.9
GEOGRAPHY	770	767	896	874	7.9	-2.5
HISTORY AND PHILOSOPHY OF SCIENCE	67	73	68	78	.7	14.7
LINGUISTICS	722	653	684	626	-2.7	-8.5
POLITICAL SCIENCE	2,003	1,831	1,999	1,971	-.1	-1.4
SOCIOLOGY	1,513	1,563	1,568	1,545	1.8	-1.5
SOCIOLOGY/ANTHROPOLOGY	220	203	195	204	-5.9	4.6
SOCIAL SCIENCES, N.E.C.	592	631	552	630	-3.4	14.1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-23.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	100,621	103,013	105,152	106,645	2.2	1.4
ENGINEERING	16,652	17,239	18,506	21,068	5.4	13.8
AEROSPACE	381	453	552	530	20.4	-4.0
AGRICULTURAL	171	130	185	197	4.0	6.5
BIOMEDICAL	351	329	376	416	3.5	10.6
CHEMICAL	1,125	1,080	1,230	1,433	4.6	16.5
CIVIL	4,125	4,079	4,808	5,364	8.0	11.6
ELECTRICAL	3,802	4,117	4,023	4,832	2.9	20.1
ENGINEERING SCIENCE	370	402	363	387	-1.0	6.6
INDUSTRIAL	2,502	2,507	2,350	2,409	-3.1	2.5
MECHANICAL	1,811	2,001	2,289	2,780	12.4	21.5
METALLURGICAL/MATERIALS	339	302	340	368	.1	8.2
MINING	59	74	79	110	15.7	39.2
NUCLEAR	291	282	304	335	2.2	10.2
PETROLEUM	105	133	148	212	18.7	43.2
ENGINEERING, N.E.C.	1,220	1,350	1,459	1,695	9.4	16.2
PHYSICAL SCIENCES	2,453	2,118	2,099	2,225	-7.5	6.0
ASTRONOMY	63	46	49	64	-11.8	30.6
CHEMISTRY	1,341	1,098	1,027	1,082	-12.5	5.4
PHYSICS	1,004	920	980	1,046	-1.2	6.7
PHYSICAL SCIENCES, N.E.C.	45	54	43	33	-2.2	-23.2
ENVIRONMENTAL SCIENCES	3,336	3,329	3,816	4,045	7.0	6.0
ATMOSPHERIC SCIENCES	154	165	205	213	15.4	3.9
GEOSCIENCES	2,058	2,052	2,322	2,664	6.2	14.7
OCEANOGRAPHY	394	420	508	436	13.5	-14.2
ENVIRONMENTAL SCIENCES, N.E.C.	730	692	781	732	3.4	-6.3
MATHEMATICAL/COMPUTER SCIENCES	5,698	6,292	6,891	8,526	10.0	23.7
COMPUTER SCIENCE	3,262	3,708	4,128	5,456	12.5	32.2
MATHEMATICS AND APPLIED MATHEMATICS	2,054	2,155	2,243	2,535	4.5	13.0
STATISTICS	382	429	520	535	16.7	2.9
LIFE SCIENCES	25,908	26,340	26,509	25,416	1.2	-4.1
AGRICULTURAL SCIENCES	3,787	3,752	3,785	3,649	*	-3.6
BIOLOGICAL SCIENCES	10,832	10,184	9,817	9,267	-4.8	-5.6
ANATOMY	272	284	234	243	-7.2	3.8
BIOCHEMISTRY	502	501	460	529	-4.3	15.0
BIOLOGY	3,566	2,988	2,856	2,548	-10.5	-10.8
BIOMETRY/EPIDEMIOLOGY	491	523	418	395	-7.7	-5.5
BIOPHYSICS	86	90	123	93	19.6	-24.4
BOTANY	778	731	679	671	-6.6	-1.2
CELL BIOLOGY	78	83	76	65	-1.3	-14.5
ECOLOGY	203	252	255	256	12.1	.4
ENTOMOLOGY/PARASITOLOGY	352	315	306	272	-6.8	-11.1
GENETICS	222	174	193	215	-6.8	11.4
MICROBIOLOGY	850	910	769	781	-4.9	1.6
NUTRITION	1,272	1,189	1,403	1,385	5.0	-1.3
PATHOLOGY	615	613	575	397	-3.3	-31.0
PHARMACOLOGY	356	423	337	369	-2.7	9.5
PHYSIOLOGY	563	515	568	533	.4	-6.2
ZOOLOGY	512	486	456	409	-5.6	-10.3
BIOSCIENCES, N.E.C.	114	107	109	106	-2.2	-2.8
HEALTH SCIENCES	11,289	12,404	12,907	12,500	6.9	-3.2
ANESTHESIOLOGY	15	13	15	19	.0	26.7
CANCER/ONCOLOGY	0	0	44	0	**	-100.0
CARDIOLOGY	0	18	25	25	**	.0
DENTISTRY	669	619	545	437	-9.7	-19.8
ENDOCRINOLOGY	6	12	8	5	15.5	-37.5
GASTROENTEROLOGY	0	0	0	0	**	**
HEMATOLOGY	9	6	5	5	-25.5	.0
NEUROLOGY	36	61	32	35	-5.7	9.4
NURSING	2,323	2,407	3,008	2,950	13.8	-1.9
OBSTETRICS/GYNECOLOGY	4	3	4	7	.0	75.0
OPHTHALMOLOGY	1	2	2	3	41.4	50.0
OTORHINOLARYNGOLOGY	6	7	0	0	-100.0	**
PEDIATRICS	51	53	52	76	1.0	46.2
PHARMACEUTICAL SCIENCES	410	442	398	433	-1.5	8.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,248	2,310	2,323	2,412	1.7	3.8
PSYCHIATRY	50	16	18	22	-40.0	22.2
PULMONARY DISEASE	0	2	0	2	**	**
RADIOLOGY	87	98	97	66	5.6	-32.0
SPEECH PATHOLOGY/AUDIOLOGY	3,193	3,608	3,577	3,481	5.8	-2.7
SURGERY	24	34	6	21	-50.0	250.0
VETERINARY SCIENCES	155	96	90	103	-23.8	14.4
CLINICAL MEDICINE, N.E.C.	102	164	100	117	-1.0	17.0
HEALTH RELATED, N.E.C.	1,900	2,433	2,558	2,281	16.0	-10.8
PSYCHOLOGY	14,974	15,732	15,553	15,149	1.9	-2.6
SOCIAL SCIENCES	31,600	31,963	31,778	30,216	-.3	-4.9
AGRICULTURAL ECONOMICS	720	750	768	759	3.3	-1.2
ANTHROPOLOGY	2,508	2,623	2,416	2,224	-1.9	-7.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,584	4,200	4,337	4,396	10.0	1.4
GEOGRAPHY	900	968	945	892	2.5	-5.6
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	76	68	-7.1	-10.5
LINGUISTICS	784	997	945	1,014	9.8	7.3
POLITICAL SCIENCE	8,784	8,154	8,868	8,393	.5	-5.4
SOCIOLOGY	2,411	2,511	2,239	1,885	-3.6	-15.8
SOCIOLOGY/ANTHROPOLOGY	200	242	195	249	-1.3	27.7
SOCIAL SCIENCES, N.E.C.	11,621	11,435	10,989	10,336	-2.8	-5.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-24.—FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	5,764	5,322	5,028	4,824	-6.6	-4.1
ENGINEERING	1,657	1,541	1,485	1,563	-5.3	5.3
AEROSPACE	136	170	239	241	32.6	.8
AGRICULTURAL	10	4	5	9	-29.3	80.0
BIOMEDICAL	18	24	21	6	8.0	-71.4
CHEMICAL	125	39	39	33	-44.1	-15.4
CIVIL	186	123	135	136	-14.8	.7
ELECTRICAL	407	496	417	480	1.2	15.1
ENGINEERING SCIENCE	214	231	173	167	-10.1	-3.5
INDUSTRIAL	311	210	212	159	-17.4	-25.0
MECHANICAL	121	138	136	138	6.0	1.5
METALLURGICAL/MATERIALS	11	12	2	3	-57.4	50.0
MINING	9	8	6	3	-18.4	-50.0
NUCLEAR	6	7	6	31	.0	416.7
PETROLEUM	15	4	1	10	-74.2	900.0
ENGINEERING, N.E.C.	88	75	93	147	2.8	58.1
PHYSICAL SCIENCES	308	126	102	88	-42.5	-13.7
ASTRONOMY	4	4	4	4	.0	.0
CHEMISTRY	241	47	21	14	-70.5	-33.3
PHYSICS	63	66	72	70	6.9	-2.8
PHYSICAL SCIENCES, N.E.C.	0	9	5	0	**	-100.0
ENVIRONMENTAL SCIENCES	315	268	247	246	-11.4	-.4
ATMOSPHERIC SCIENCES	56	44	60	64	3.5	6.7
GEOSCIENCES	130	90	75	77	-24.0	2.7
OCEANOGRAPHY	103	90	91	83	-6.0	-8.8
ENVIRONMENTAL SCIENCES, N.E.C.	26	44	21	22	-10.1	4.8
MATHEMATICAL/COMPUTER SCIENCES	398	453	534	622	15.8	16.5
COMPUTER SCIENCE	129	181	226	298	32.4	31.9
MATHEMATICS AND APPLIED MATHEMATICS	248	261	296	320	9.2	8.1
STATISTICS	21	11	12	4	-24.4	-66.7
LIFE SCIENCES	1,256	1,262	1,287	1,028	1.2	-20.1
AGRICULTURAL SCIENCES	132	66	108	82	-9.5	-24.1
BIOLOGICAL SCIENCES	555	475	448	491	-10.2	9.6
ANATOMY	22	29	16	9	-14.7	-43.8
BIOCHEMISTRY	40	34	30	91	-13.4	203.3
BIOLOGY	125	57	59	79	-31.3	33.9
BIOMETRY/EPIDEMIOLOGY	18	13	22	23	10.6	4.5
BIOPHYSICS	6	5	4	1	-18.4	-75.0
BOTANY	31	20	16	26	-28.2	62.5
CELL BIOLOGY	33	27	19	18	-24.1	-5.3
ECOLOGY	15	11	8	9	-27.0	12.5
ENTOMOLOGY/PARASITOLOGY	20	15	19	11	-2.5	-42.1
GENETICS	17	5	15	11	-6.1	-26.7
MICROBIOLOGY	45	74	62	64	17.4	3.2
NUTRITION	10	22	24	18	54.9	-25.0
PATHOLOGY	30	45	28	28	-3.4	.0
PHARMACOLOGY	33	39	28	41	-7.9	44.4
PHYSIOLOGY	73	51	35	17	-30.8	-51.4
ZOOLOGY	30	19	30	10	.0	-66.7
BIOSCIENCES, N.E.C.	7	9	33	35	117.1	6.1
HEALTH SCIENCES	569	721	731	455	13.3	-37.8
ANESTHESIOLOGY	0	0	0	0	**	**
CANCER/ONCOLOGY	0	0	0	0	**	**
CARDIOLOGY	0	0	1	1	**	.0
DENTISTRY	35	46	32	18	-4.4	-43.8
ENDOCRINOLOGY	0	2	1	0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	**	**
HEMATOLOGY	0	0	1	1	**	.0
NEUROLOGY	1	13	4	3	100.0	-25.0
NURSING	157	247	301	215	38.5	-28.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	**	**
OPHTHALMOLOGY	0	0	0	0	**	**
OTORHINOLARYNGOLOGY	0	2	0	0	**	**
PEDIATRICS	0	0	0	0	**	**
PHARMACEUTICAL SCIENCES	21	21	29	18	17.5	-37.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	185	129	127	87	-17.1	-31.5
PSYCHIATRY	4	0	0	0	-100.0	**
PULMONARY DISEASE	0	0	0	0	**	**
RADIOLOGY	1	2	2	5	41.4	150.0
SPEECH PATHOLOGY/AUDIOLOGY	48	47	52	58	4.1	11.5
SURGERY	0	2	0	0	**	**
VETERINARY SCIENCES	7	4	11	2	25.4	-81.8
CLINICAL MEDICINE, N.E.C.	5	18	5	1	.0	-80.0
HEALTH RELATED, N.E.C.	103	168	165	46	26.6	-72.1
PSYCHOLOGY	383	560	458	293	9.4	-36.0
SOCIAL SCIENCES	1,447	1,112	915	984	-20.5	7.5
AGRICULTURAL ECONOMICS	66	38	63	34	-2.3	-46.0
ANTHROPOLOGY	55	61	62	64	6.2	3.2
ECONOMICS (EXCEPT AGRICULTURAL)	57	92	78	47	17.0	-39.7
GEOGRAPHY	22	14	17	13	-12.1	-23.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	3	0	**	-100.0
LINGUISTICS	26	8	10	126	-38.0	1160.0
POLITICAL SCIENCE	438	454	425	416	-1.5	-2.1
SOCIOLOGY	75	74	78	35	2.0	-55.1
SOCIOLOGY/ANTHROPOLOGY	5	12	1	2	-55.3	100.0
SOCIAL SCIENCES, N.E.C.	703	359	178	247	-49.7	38.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-25.--FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	94,857	97,691	100,124	101,821	2.7	1.7
ENGINEERING	14,995	15,698	17,021	19,505	6.5	14.6
AEROSPACE	245	283	313	289	13.0	-7.7
AGRICULTURAL	161	126	180	188	5.7	4.4
BIOMEDICAL	333	305	355	410	3.3	15.5
CHEMICAL	1,000	1,041	1,191	1,400	9.1	17.5
CIVIL	3,939	3,956	4,673	5,228	8.9	11.9
ELECTRICAL	3,395	3,621	3,606	4,352	3.1	20.7
ENGINEERING SCIENCE	156	171	190	220	10.4	15.8
INDUSTRIAL	2,191	2,297	2,138	2,250	-1.2	5.2
MECHANICAL	1,690	1,863	2,153	2,642	12.9	22.7
METALLURGICAL/MATERIALS	328	290	338	365	1.5	8.0
MINING	50	66	73	107	20.8	46.6
NUCLEAR	285	275	298	304	2.3	2.0
PETROLEUM	90	129	147	202	27.8	37.4
ENGINEERING, N.E.C.	1,132	1,275	1,366	1,548	9.9	13.3
PHYSICAL SCIENCES	2,145	1,992	1,997	2,137	-3.5	7.0
ASTRONOMY	59	42	45	60	-12.7	33.3
CHEMISTRY	1,100	1,051	1,006	1,068	-4.4	6.2
PHYSICS	941	854	908	976	-1.8	7.5
PHYSICAL SCIENCES, N.E.C.	45	45	38	33	-8.1	-13.2
ENVIRONMENTAL SCIENCES	3,021	3,061	3,569	3,799	8.7	6.4
ATMOSPHERIC SCIENCES	98	121	145	149	21.6	2.8
GEOSCIENCES	1,928	1,962	2,247	2,587	8.0	15.1
OCEANOGRAPHY	291	330	417	353	19.7	-15.3
ENVIRONMENTAL SCIENCES, N.E.C.	704	648	760	710	3.9	-6.6
MATHEMATICAL/COMPUTER SCIENCES	5,300	5,839	6,357	7,904	9.5	24.3
COMPUTER SCIENCE	3,133	3,527	3,902	5,158	11.6	32.2
MATHEMATICS AND APPLIED MATHEMATICS	1,806	1,894	1,947	2,215	3.8	13.8
STATISTICS	361	418	508	531	18.6	4.5
LIFE SCIENCES	24,652	25,078	25,222	24,388	1.1	-3.3
AGRICULTURAL SCIENCES	3,655	3,686	3,677	3,567	.3	-3.0
BIOLOGICAL SCIENCES	10,277	9,709	9,369	8,776	-4.5	-6.3
ANATOMY	250	255	218	234	-6.6	7.3
BIOCHEMISTRY	462	467	430	438	-3.5	1.9
BIOLOGY	3,441	2,931	2,797	2,469	-9.8	-11.7
BIOMETRY/EPIDEMIOLOGY	473	510	396	372	-8.5	-6.1
BIOPHYSICS	80	85	119	92	22.0	-22.7
BOTANY	747	711	663	645	-5.8	-2.7
CELL BIOLOGY	45	56	57	47	12.5	-17.5
ECOLOGY	188	241	247	247	14.6	.0
ENTOMOLOGY/PARASITOLOGY	332	300	287	261	-7.0	-9.1
GENETICS	205	169	178	204	-6.8	14.6
MICROBIOLOGY	805	836	707	717	-6.3	1.4
NUTRITION	1,262	1,167	1,379	1,367	4.5	-.9
PATHOLOGY	585	568	547	369	-3.3	-32.5
PHARMACOLOGY	323	384	309	328	-2.2	6.1
PHYSIOLOGY	490	464	533	516	4.3	-3.2
ZOOLOGY	482	467	426	399	-6.0	-6.3
BIOSCIENCES, N.E.C.	107	98	76	71	-15.7	-6.6
HEALTH SCIENCES	10,720	11,683	12,176	12,045	6.6	-1.1
ANESTHESIOLOGY	15	13	15	19	.0	26.7
CANCER/ONCOLOGY	0	0	44	0	**	-100.0
CARDIOLOGY	0	18	24	24	**	.0
DENTISTRY	634	573	513	419	-10.0	-18.3
ENDOCRINOLOGY	6	10	7	5	8.0	-28.6
GASTROENTEROLOGY	0	0	0	0	**	**
HEMATOLOGY	9	6	4	4	-33.3	.0
NEUROLOGY	35	48	28	32	-10.6	14.3
NURSING	2,166	2,160	2,707	2,735	11.8	1.0
OBSTETRICS/GYNECOLOGY	4	3	4	7	.0	75.0
OPHTHALMOLOGY	1	2	2	3	41.4	50.0
OTORHINOLARYNGOLOGY	6	5	0	0	-100.0	**
PEDIATRICS	51	53	52	76	1.0	46.2
PHARMACEUTICAL SCIENCES	389	421	369	415	-2.6	12.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,063	2,181	2,196	2,325	3.2	5.9
PSYCHIATRY	44	16	18	22	-36.0	22.2
PULMONARY DISEASE	0	2	0	2	**	**
RADIOLOGY	86	96	95	61	5.1	-35.8
SPEECH PATHOLOGY/AUDIOLOGY	3,145	3,541	3,525	3,423	5.9	-2.9
SURGERY	24	32	6	21	-50.0	250.0
VETERINARY SCIENCES	148	92	79	101	-26.9	27.8
CLINICAL MEDICINE, N.E.C.	97	146	95	116	-1.0	22.1
HEALTH RELATED, N.E.C.	1,797	2,265	2,393	2,235	15.4	-6.6
PSYCHOLOGY	14,591	15,172	15,095	14,856	1.7	-1.6
SOCIAL SCIENCES	30,153	30,851	30,863	29,232	1.2	-5.3
AGRICULTURAL ECONOMICS	654	712	705	725	3.8	2.8
ANTHROPOLOGY	2,453	2,562	2,354	2,160	-2.0	-8.2
ECONOMICS (EXCEPT AGRICULTURAL)	3,527	4,108	4,259	4,349	9.9	2.1
GEOGRAPHY	878	954	928	879	2.8	-5.3
HISTORY AND PHILOSOPHY OF SCIENCE	88	83	73	68	-8.9	-6.8
LINGUISTICS	758	989	935	888	11.1	-5.0
POLITICAL SCIENCE	8,346	7,700	8,443	7,977	.6	-5.5
SOCIOLOGY	2,336	2,437	2,161	1,850	-3.8	-14.4
SOCIOLOGY/ANTHROPOLOGY	195	230	194	247	-.3	27.3
SOCIAL SCIENCES, N.E.C.	10,918	11,076	10,811	10,089	-.5	-6.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-26. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	197,716	195,492	198,429	198,032	197,932	*	-0.1	*
ENGINEERING	24,186	24,028	25,338	26,606	29,028	2.4	9.1	3.7
AEROSPACE	711	631	759	882	945	5.5	7.1	5.9
AGRICULTURAL	335	371	338	374	398	2.8	6.4	3.5
BIOMEDICAL	599	715	670	709	732	4.3	3.2	4.1
CHEMICAL	2,273	2,354	2,500	2,787	3,267	5.2	17.2	7.5
CIVIL	5,049	4,915	5,024	5,462	5,729	2.0	4.9	2.6
ELECTRICAL	5,435	5,174	5,666	5,665	6,421	1.0	13.3	3.4
ENGINEERING SCIENCE	835	808	861	902	894	1.9	-.9	1.4
INDUSTRIAL	2,263	2,519	2,410	2,171	2,362	-1.0	8.8	.9
MECHANICAL	3,040	3,069	3,285	3,447	3,853	3.2	11.8	4.9
METALLURGICAL/MATERIALS	1,186	1,110	1,147	1,342	1,297	3.1	-3.4	1.8
MINING	212	185	186	234	251	2.5	7.3	3.4
NUCLEAR	768	631	600	605	569	-5.8	-6.0	-5.8
PETROLEUM	100	105	160	198	216	18.6	9.1	16.7
ENGINEERING, N.E.C.	1,380	1,441	1,732	1,828	2,094	7.3	14.6	8.7
PHYSICAL SCIENCES	17,812	17,184	17,171	17,035	17,583	-1.1	3.2	-.3
ASTRONOMY	529	525	509	472	488	-2.8	3.4	-1.6
CHEMISTRY	10,544	10,502	10,597	10,502	11,087	-.1	5.6	1.0
PHYSICS	6,624	6,078	5,985	5,982	5,925	-2.5	-1.0	-2.2
PHYSICAL SCIENCES, N.E.C.	115	79	80	79	83	-9.0	5.1	-6.3
ENVIRONMENTAL SCIENCES	9,264	9,289	9,440	9,472	9,713	.6	2.5	1.0
ATMOSPHERIC SCIENCES	682	623	644	593	625	-3.4	5.4	-1.7
GEOSCIENCES	5,706	5,946	6,124	6,067	6,547	1.5	7.9	2.8
OCEANOGRAPHY	1,390	1,326	1,360	1,376	1,253	-.3	-8.9	-2.1
ENVIRONMENTAL SCIENCES, N.E.C.	1,486	1,394	1,312	1,436	1,288	-.9	-10.3	-2.8
MATHEMATICAL/COMPUTER SCIENCES	11,382	10,833	11,149	11,386	13,016	*	14.3	2.7
COMPUTER SCIENCE	3,549	4,126	4,572	4,950	6,168	8.5	24.6	11.6
MATHEMATICS AND APPLIED MATHEMATICS	6,865	5,887	5,692	5,594	6,016	-5.0	7.5	-2.6
STATISTICS	948	820	885	842	832	-2.9	-1.2	-2.6
LIFE SCIENCES	61,849	62,623	63,624	62,934	60,885	.4	-3.3	-.3
AGRICULTURAL SCIENCES	7,699	7,678	7,777	7,728	7,636	.1	-1.2	-.2
BIOLOGICAL SCIENCES	34,686	33,760	33,322	32,686	32,009	-1.5	-2.1	-1.6
ANATOMY	1,020	992	938	907	880	-2.9	-3.0	-2.9
BIOCHEMISTRY	3,191	3,219	3,169	3,110	3,155	-.6	1.4	-.2
BIOLOGY	10,208	9,607	9,060	8,728	8,322	-3.8	-4.7	-4.0
BIOMETRY/EPIDEMIOLOGY	806	841	904	842	772	1.1	-8.3	-.9
BIOPHYSICS	469	426	420	396	355	-4.1	-10.4	-5.4
BOTANY	2,938	2,706	2,632	2,491	2,552	-4.0	2.4	-2.8
CELL BIOLOGY	568	660	751	802	934	9.0	16.5	10.5
ECOLOGY	895	777	880	852	812	-1.2	-4.7	-1.9
ENTOMOLOGY/PARASITOLOGY	1,155	1,238	1,298	1,189	1,113	.7	-6.4	-.7
GENETICS	813	762	771	766	793	-1.5	3.7	-.5
MICROBIOLOGY	3,481	3,153	3,244	3,128	3,197	-2.6	2.2	-1.7
NUTRITION	2,148	2,243	2,233	2,339	2,305	2.2	-1.5	1.4
PATHOLOGY	953	1,075	1,066	1,054	918	2.6	-12.9	-.7
PHARMACOLOGY	1,513	1,658	1,700	1,712	1,702	3.1	-.6	2.4
PHYSIOLOGY	1,805	1,709	1,679	1,739	1,620	-.9	-6.8	-2.1
ZOOLOGY	2,503	2,297	2,154	2,132	2,020	-3.9	-5.3	-4.2
BIOSCIENCES, N.E.C.	220	397	423	499	559	22.7	12.0	20.5
HEALTH SCIENCES	19,464	21,185	22,525	22,520	21,240	3.7	-5.7	1.8
ANESTHESIOLOGY	3	17	12	15	19	49.5	26.7	44.7
CANCER/ONCOLOGY	41	39	38	38	55	-1.9	44.7	6.1
CARDIOLOGY	3	3	30	27	28	73.2	3.7	56.3
DENTISTRY	793	827	746	681	651	-3.7	-4.4	-3.9
ENDOCRINOLOGY	28	42	47	43	44	11.3	2.3	9.5
GASTROENTEROLOGY	8	0	0	2	7	-29.3	250.0	-2.6
HEMATOLOGY	5	13	8	9	6	15.8	-33.3	3.7
NEUROLOGY	290	329	329	282	306	-.7	8.5	1.1
NURSING	5,437	6,150	6,302	6,912	6,440	6.2	-6.5	3.5
OBSTETRICS/GYNECOLOGY	20	25	4	8	10	-20.5	25.0	-12.9
OPHTHALMOLOGY	9	4	13	16	15	15.5	-6.3	10.8
OTORHINOLARYNGOLOGY	52	21	18	15	16	-26.7	6.7	-21.0
PEDIATRICS	107	116	119	126	125	4.2	-.8	3.2
PHARMACEUTICAL SCIENCES	1,165	1,146	1,195	1,152	1,121	-.3	-2.7	-.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,861	3,816	3,954	3,886	3,354	8.0	-13.7	3.2
PSYCHIATRY	124	116	59	57	66	-17.7	15.8	-11.8
PULMONARY DISEASE	3	1	15	9	11	31.6	22.2	29.7
RADIOLOGY	235	181	196	200	172	-4.0	-14.0	-6.1
SPEECH PATHOLOGY/AUDIOLOGY	5,315	5,008	5,453	5,230	5,235	-.4	.1	-.3
SURGERY	77	49	65	65	71	-4.1	9.2	-1.6
VETERINARY SCIENCES	329	323	281	257	290	-6.0	12.8	-2.5
CLINICAL MEDICINE, N.E.C.	234	249	322	262	307	2.9	17.2	5.6
HEALTH RELATED, N.E.C.	2,325	2,710	3,319	3,228	2,871	8.5	-11.1	4.3
PSYCHOLOGY	24,942	24,698	25,461	25,699	24,789	.8	-3.5	-.1
SOCIAL SCIENCES	48,281	46,837	46,246	44,900	42,918	-1.8	-4.4	-2.3
AGRICULTURAL ECONOMICS	1,322	1,288	1,309	1,267	1,248	-1.1	-1.5	-1.1
ANTHROPOLOGY	4,801	4,257	4,220	3,895	3,719	-5.1	-4.5	-5.0
ECONOMICS (EXCEPT AGRICULTURAL)	5,566	5,240	5,789	5,713	5,963	.7	4.4	1.4
GEOGRAPHY	2,052	1,757	1,904	1,910	1,804	-1.8	-5.5	-2.5
HISTORY AND PHILOSOPHY OF SCIENCE	232	204	216	187	188	-5.2	.5	-4.1
LINGUISTICS	1,397	1,575	1,435	1,448	1,430	.9	-1.2	.5
POLITICAL SCIENCE	12,060	11,925	11,213	11,772	11,140	-.6	-5.4	-1.6
SOCIOLOGY	5,666	5,041	4,938	4,551	4,060	-5.3	-10.8	-6.4
SOCIOLOGY/ANTHROPOLOGY	692	524	507	461	518	-9.7	12.4	-5.6
SOCIAL SCIENCES, N.E.C.	14,493	15,026	14,715	13,696	12,848	-1.4	-6.2	-2.4

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-27. -- FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN ALL INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	38,448	46,887	50,730	54,985	58,027	9.4	5.5	8.6
ENGINEERING	13,712	16,721	18,088	19,892	21,548	9.7	8.3	9.5
AEROSPACE	476	521	568	601	577	6.0	-4.0	3.9
AGRICULTURAL	285	274	293	298	341	1.1	14.4	3.7
BIOMEDICAL	116	131	135	158	199	8.0	25.9	11.4
CHEMICAL	1,600	1,864	1,990	2,202	2,341	8.3	6.3	7.9
CIVIL	2,380	3,153	3,372	3,741	4,080	12.0	9.1	11.4
ELECTRICAL	3,093	3,865	4,297	4,785	5,112	11.5	6.8	10.6
ENGINEERING SCIENCE	359	329	375	388	470	2.0	21.1	5.5
INDUSTRIAL	1,292	1,442	1,524	1,659	1,695	6.5	2.2	5.6
MECHANICAL	1,904	2,445	2,643	3,070	3,511	12.7	14.4	13.0
METALLURGICAL/MATERIALS	765	1,025	1,107	1,112	1,181	9.8	6.2	9.1
MINING	153	113	139	155	122	.3	-21.3	-4.4
NUCLEAR	391	444	443	427	473	2.2	10.8	3.9
PETROLEUM	201	232	213	195	260	-.8	33.3	5.3
ENGINEERING, N.E.C.	697	883	989	1,101	1,186	12.1	7.7	11.2
PHYSICAL SCIENCES	4,696	5,341	5,744	6,271	6,488	7.5	3.5	6.7
ASTRONOMY	70	75	84	93	102	7.4	9.7	7.8
CHEMISTRY	2,587	2,859	2,983	3,217	3,221	5.6	.1	4.5
PHYSICS	2,023	2,393	2,665	2,950	3,155	9.9	6.9	9.3
PHYSICAL SCIENCES, N.E.C.	16	14	12	11	10	-8.9	-9.1	-9.0
ENVIRONMENTAL SCIENCES	1,111	1,295	1,376	1,491	1,618	7.6	8.5	7.8
ATMOSPHERIC SCIENCES	129	156	145	179	188	8.5	5.0	7.8
GEOSCIENCES	696	747	808	877	908	5.9	3.5	5.5
OCEANOGRAPHY	150	185	208	246	340	13.2	38.2	17.8
ENVIRONMENTAL SCIENCES, N.E.C.	136	207	215	189	182	8.6	-3.7	6.0
MATHEMATICAL/COMPUTER SCIENCES	3,552	4,656	5,307	6,195	7,034	14.9	13.5	14.6
COMPUTER SCIENCE	1,130	1,809	2,097	2,609	3,197	23.3	22.5	23.1
MATHEMATICS AND APPLIED MATHEMATICS	1,888	2,249	2,584	2,887	3,092	11.2	7.1	10.4
STATISTICS	534	598	626	699	745	7.0	6.6	6.9
LIFE SCIENCES	7,134	8,629	8,867	9,407	9,791	7.2	4.1	6.5
AGRICULTURAL SCIENCES	1,887	2,160	2,249	2,386	2,414	6.0	1.2	5.0
BIOLOGICAL SCIENCES	3,813	4,407	4,555	4,837	5,015	6.1	3.7	5.6
ANATOMY	61	82	83	87	89	9.3	2.3	7.8
BIOCHEMISTRY	435	442	505	589	665	7.9	12.9	8.9
BIOLOGY	692	862	878	890	870	6.5	-2.2	4.7
BIOMETRY/EPIDEMIOLOGY	93	130	145	161	151	14.7	-6.2	10.2
BIOPHYSICS	84	72	56	61	70	-7.7	14.8	-3.6
BOTANY	485	510	513	528	579	2.1	9.7	3.6
CELL BIOLOGY	62	63	65	79	95	6.2	20.3	8.9
ECOLOGY	32	52	67	73	80	22.9	9.6	20.1
ENTOMOLOGY/PARASITOLOGY	234	225	227	263	227	3.0	-13.7	-.6
GENETICS	106	93	98	92	114	-3.5	23.9	1.5
MICROBIOLOGY	307	384	422	425	468	8.5	10.1	8.8
NUTRITION	707	777	779	833	809	4.2	-2.9	2.7
PATHOLOGY	105	159	174	190	169	16.0	-11.1	10.0
PHARMACOLOGY	153	195	186	199	244	6.8	22.6	9.8
PHYSIOLOGY	110	178	171	180	188	13.1	4.4	11.3
ZOOLOGY	128	137	136	136	135	1.5	-.7	1.1
BIOSCIENCES, N.E.C.	19	46	50	51	62	28.0	21.6	26.7
HEALTH SCIENCES	1,434	2,062	2,063	2,184	2,362	11.1	8.2	10.5
ANESTHESIOLOGY	0	1	1	1	2	**	100.0	**
CANCER/ONCOLOGY	10	6	6	6	0	-12.0	-100.0	-100.0
CARDIOLOGY	0	0	5	1	0	**	-100.0	**
DENTISTRY	159	231	243	190	157	4.6	-17.4	-.3
ENDOCRINOLOGY	3	1	1	3	7	.0	133.3	18.5
GASTROENTEROLOGY	0	0	0	1	0	**	-100.0	**
HEMATOLOGY	2	1	0	0	0	-100.0	**	-100.0
NEUROLOGY	17	18	20	20	19	4.1	-5.0	2.2
NURSING	147	184	181	225	202	11.2	-10.2	6.6
OBSTETRICS/GYNECOLOGY	5	8	1	2	10	-20.5	400.0	14.9
OPHTHALMOLOGY	0	1	2	3	4	**	33.3	**
OTORHINOLARYNGOLOGY	4	3	0	0	0	-100.0	**	-100.0
PEDIATRICS	6	3	8	19	19	39.6	.0	30.6
PHARMACEUTICAL SCIENCES	427	480	465	541	588	6.1	8.7	6.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	255	508	584	580	697	22.8	20.2	22.3
PSYCHIATRY	3	4	2	0	6	-100.0	**	14.9
PULMONARY DISEASE	0	0	0	0	1	**	**	**
RADIOLOGY	34	39	37	37	39	2.1	5.4	2.8
SPEECH PATHOLOGY/AUDIOLOGY	112	228	210	244	214	21.5	-12.3	13.8
SURGERY	12	11	14	9	19	-6.9	111.1	9.6
VETERINARY SCIENCES	122	145	113	119	100	-.6	-16.0	-3.9
CLINICAL MEDICINE, N.E.C.	31	23	30	36	60	3.8	66.7	14.1
HEALTH RELATED, N.E.C.	86	165	140	147	218	14.3	48.3	20.4
PSYCHOLOGY	741	1,148	1,210	1,004	1,094	7.9	9.0	8.1
SOCIAL SCIENCES	7,502	9,097	10,138	10,725	10,454	9.3	-2.5	6.9
AGRICULTURAL ECONOMICS	636	660	753	770	702	4.9	-8.8	2.0
ANTHROPOLOGY	291	334	396	428	386	10.1	-9.8	5.8
ECONOMICS (EXCEPT AGRICULTURAL)	2,827	3,135	3,503	3,674	3,585	6.8	-2.4	4.9
GEOGRAPHY	260	350	390	378	397	9.8	5.0	8.8
HISTORY AND PHILOSOPHY OF SCIENCE	25	30	25	30	35	4.7	16.7	7.0
LINGUISTICS	465	616	742	733	709	12.1	-3.3	8.8
POLITICAL SCIENCE	1,598	2,151	2,388	2,540	2,541	12.3	*	9.7
SOCIOLOGY	719	843	948	1,062	1,002	10.2	-5.6	6.9
SOCIOLOGY/ANTHROPOLOGY	66	109	103	99	129	10.7	30.3	14.3
SOCIAL SCIENCES, N.E.C.	615	869	890	1,011	968	13.2	-4.3	9.5

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-28. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	2,560	2,875	3,154	3,432	3,368	3,548	3,489	5.6	-1.7	4.5
ENGINEERING	180	185	202	253	307	282	311	7.8	10.3	8.1
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	67	67	39	79	85	53	44	-3.8	-17.0	-5.8
ELECTRICAL	28	29	69	26	46	66	64	15.4	-3.0	12.5
ENGINEERING SCIENCE	0	0	4	0	0	0	0	**	**	**
INDUSTRIAL	28	37	43	41	69	47	52	9.0	10.6	9.2
MECHANICAL	34	35	25	21	22	30	30	-2.1	.0	-1.8
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	6	0	6	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	17	17	16	86	85	86	121	31.0	40.7	32.4
PHYSICAL SCIENCES	231	249	288	244	248	284	288	3.5	1.4	3.2
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	158	179	216	195	195	217	226	5.4	4.1	5.2
PHYSICS	73	76	59	49	53	67	58	-1.4	-13.4	-3.2
PHYSICAL SCIENCES, N.E.C.	0	10	13	0	0	0	4	**	**	**
ENVIRONMENTAL SCIENCES	14	21	28	23	30	23	31	8.6	34.8	12.0
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	7	9	9	7	9	2	13	-18.8	550.0	9.2
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	7	12	19	16	21	21	18	20.1	-14.3	14.4
MATHEMATICAL/COMPUTER SCIENCES	317	343	318	248	264	299	405	-1.0	35.5	3.6
COMPUTER SCIENCE	45	63	86	94	96	110	188	16.1	70.9	22.7
MATHEMATICS AND APPLIED MATHEMATICS	272	280	232	154	168	189	217	-5.9	14.8	-3.2
STATISTICS	0	0	0	0	0	0	0	0	0	0
LIFE SCIENCES	733	914	966	1,032	991	962	935	4.6	-2.8	3.5
AGRICULTURAL SCIENCES	49	53	78	105	72	83	103	9.2	24.1	11.2
BIOLOGICAL SCIENCES	527	674	666	685	666	633	635	3.1	.3	2.7
ANATOMY	12	8	10	6	7	8	10	-6.5	25.0	-2.6
BIOCHEMISTRY	13	18	25	22	21	21	22	8.3	4.8	7.8
BIOLOGY	300	402	410	413	401	358	375	3.0	4.7	3.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	43	52	40	38	39	50	45	2.5	-10.0	.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	2	7	11	16	13	16	25	41.4	56.3	43.5
MICROBIOLOGY	25	34	36	39	21	27	24	1.3	-11.1	-.6
NUTRITION	20	25	23	23	39	39	36	11.8	-7.7	8.8
PATHOLOGY	2	0	0	0	0	0	0	-100.0	**	-100.0
PHARMACOLOGY	31	44	33	46	42	34	35	1.6	2.9	1.7
PHYSIOLOGY	19	19	21	14	14	17	14	-1.8	-17.6	-4.3
ZOOLOGY	60	65	57	68	66	55	41	-1.4	-25.5	-5.3
BIOSCIENCES, N.E.C.	0	0	0	0	3	8	8	**	.0	**
HEALTH SCIENCES	157	187	222	242	253	246	197	7.8	-19.9	3.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	2	0	0	0	0	**	**	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	0	16	28	44	46	45	63	**	40.0	**
OBSTETRICS/GYNECOLOGY	0	0	0	4	0	0	3	**	**	**
OPHTHALMOLOGY	2	1	0	0	0	0	0	-100.0	**	-100.0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	10	15	15	15	12	**	-20.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	9	16	14	14	11	8	**	-27.3	**
PSYCHIATRY	0	0	0	0	0	0	4	**	**	**
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	133	133	145	148	163	152	82	2.3	-46.1	-6.7
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	28	21	15	15	23	25	.7	8.7	1.8
CLINICAL MEDICINE, N.E.C.	0	0	0	2	0	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0	0	0
PSYCHOLOGY	250	303	265	274	291	268	248	1.2	-7.5	-.1
SOCIAL SCIENCES	835	864	1,087	1,358	1,237	1,430	1,271	9.4	-11.1	6.2
AGRICULTURAL ECONOMICS	4	4	8	5	35	22	39	32.9	77.3	38.4
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	93	128	123	148	175	250	284	17.9	13.6	17.3
GEOGRAPHY	23	19	21	10	10	8	9	-16.1	12.5	-12.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	0	0	0	0	0	0	0
POLITICAL SCIENCE	232	233	388	410	450	452	286	11.8	-36.7	3.0
SOCIOLOGY	73	94	98	106	124	283	232	25.3	-18.0	18.0
SOCIOLOGY/ANTHROPOLOGY	115	88	98	93	102	95	105	-3.1	10.5	-1.3
SOCIAL SCIENCES, N.E.C.	295	298	351	586	341	320	316	1.4	-1.3	1.0

1/ DATA FOR 1978 ARE AVAILABLE FOR DOCTORATE-GRANTING INSTITUTIONS ONLY.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-29. -- SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	18,137	18,443	19,679	19,772	4.2	0.5
ENGINEERING	1,067	981	1,042	983	-1.2	-5.7
AEROSPACE	32	20	14	25	-33.9	78.6
AGRICULTURAL	25	9	9	6	-40.0	-33.3
BIOMEDICAL	32	28	34	30	3.1	-11.8
CHEMICAL	192	183	171	175	-5.6	2.3
CIVIL	128	125	108	108	-8.1	.0
ELECTRICAL	142	123	191	178	16.0	-6.8
ENGINEERING SCIENCE	75	79	87	77	7.7	-11.5
INDUSTRIAL	7	16	13	9	36.3	-30.8
MECHANICAL	143	137	131	131	-4.3	.0
METALLURGICAL/MATERIALS	209	172	194	168	-3.7	-13.4
MINING	5	3	16	10	78.9	-37.5
NUCLEAR	20	22	26	18	14.0	-30.8
PETROLEUM	6	6	2	4	-42.3	100.0
ENGINEERING, N.E.C.	51	58	44	44	-5.0	-4.3
PHYSICAL SCIENCES	4,051	4,276	4,476	4,297	5.1	-4.0
ASTRONOMY	129	141	132	148	1.2	12.1
CHEMISTRY	2,621	2,720	2,879	2,819	4.8	-2.1
PHYSICS	1,299	1,400	1,450	1,328	5.7	-8.4
PHYSICAL SCIENCES, N.E.C.	2	15	15	2	173.9	-86.7
ENVIRONMENTAL SCIENCES	318	311	345	339	4.2	-1.7
ATMOSPHERIC SCIENCES	34	43	46	33	16.3	-28.3
GEOSCIENCES	219	195	218	218	-.2	.0
OCEANOGRAPHY	54	58	68	79	12.2	16.2
ENVIRONMENTAL SCIENCES, N.E.C.	11	15	13	9	8.7	-30.8
MATHEMATICAL/COMPUTER SCIENCES	200	205	148	241	-14.0	62.8
COMPUTER SCIENCE	75	62	49	58	-19.2	18.4
MATHEMATICS AND APPLIED MATHEMATICS	102	122	88	169	-7.1	92.0
STATISTICS	23	21	11	14	-30.8	27.3
LIFE SCIENCES	11,644	11,756	12,864	13,101	5.1	1.8
AGRICULTURAL SCIENCES	215	239	284	283	14.9	-.4
BIOLOGICAL SCIENCES	6,821	7,066	7,669	7,784	6.0	1.5
ANATOMY	256	250	261	280	1.0	7.3
BIOCHEMISTRY	1,511	1,548	1,673	1,645	5.2	-1.7
BIOLOGY	994	1,010	891	961	-5.3	7.9
BIOMETRY/EPIDEMIOLOGY	68	72	64	53	-3.0	-17.2
BIOPHYSICS	103	154	156	131	23.1	-16.0
BOTANY	163	220	240	298	21.3	24.2
CELL BIOLOGY	328	387	506	487	24.2	-3.8
ECOLOGY	18	22	44	28	56.3	-36.4
ENTOMOLOGY/PARASITOLOGY	104	119	133	119	13.1	-10.5
GENETICS	231	251	290	311	12.0	7.2
MICROBIOLOGY	869	879	984	1,043	6.4	6.0
NUTRITION	170	129	171	138	.3	-19.3
PATHOLOGY	429	477	468	544	4.4	16.2
PHARMACOLOGY	633	624	755	796	9.2	5.4
PHYSIOLOGY	678	668	758	674	5.7	-11.1
ZOOLOGY	218	209	221	223	.7	.9
BIOSCIENCES, N.E.C.	48	47	54	53	6.1	-1.9
HEALTH SCIENCES	4,608	4,451	4,911	5,034	3.2	2.5
ANESTHESIOLOGY	62	54	66	72	3.2	9.1
CANCER/ONCOLOGY	110	133	119	98	4.0	-17.6
CARDIOLOGY	298	334	333	384	5.7	15.3
DENTISTRY	119	86	143	251	9.6	75.5
ENDOCRINOLOGY	105	120	150	142	19.5	-5.3
GASTROENTEROLOGY	103	123	113	124	4.7	9.7
HEMATOLOGY	151	148	153	153	.7	.0
NEUROLOGY	327	346	352	323	3.8	-8.2
NURSING	7	9	8	0	6.9	-100.0
OBSTETRICS/GYNECOLOGY	143	122	113	105	-11.1	-7.1
OPHTHALMOLOGY	138	122	144	151	2.2	4.9
OTORHINOLARYNGOLOGY	35	46	41	35	8.2	-14.6
PEDIATRICS	511	433	587	551	7.2	-6.1
PHARMACEUTICAL SCIENCES	235	233	243	238	1.7	-2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	112	161	135	152	9.8	12.6
PSYCHIATRY	292	296	292	292	.0	.0
PULMONARY DISEASE	143	127	122	143	-7.6	17.2
RADIOLOGY	138	156	155	185	6.0	19.4
SPEECH PATHOLOGY/AUDIOLOGY	35	16	17	7	-30.3	-58.8
SURGERY	281	308	307	340	4.5	10.7
VETERINARY SCIENCES	22	52	31	51	18.7	64.5
CLINICAL MEDICINE, N.E.C.	1,145	924	1,177	1,132	1.4	-3.8
HEALTH RELATED, N.E.C.	96	102	110	105	7.0	-4.5
PSYCHOLOGY	454	474	471	523	1.9	11.0
SOCIAL SCIENCES	403	440	333	288	-9.1	-13.5
AGRICULTURAL ECONOMICS	6	8	6	10	.0	66.7
ANTHROPOLOGY	44	42	31	35	-16.1	12.9
ECONOMICS (EXCEPT AGRICULTURAL)	99	146	30	13	-45.0	-56.7
GEOGRAPHY	5	15	23	5	114.5	-78.3
HISTORY AND PHILOSOPHY OF SCIENCE	11	15	21	14	38.2	-33.3
LINGUISTICS	30	54	47	47	25.2	.0
POLITICAL SCIENCE	29	30	46	44	25.9	-4.3
SOCIOLOGY	115	99	90	89	-11.5	-1.1
SOCIOLOGY/ANTHROPOLOGY	4	3	0	2	-100.0	**
SOCIAL SCIENCES, N.E.C.	60	28	39	29	-19.4	-25.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-30. -- MALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	14,790	14,891	15,580	15,293	2.6	-1.8
ENGINEERING	1,017	915	960	898	-2.8	-6.5
AEROSPACE	32	20	12	25	-38.8	108.3
AGRICULTURAL	24	8	9	6	-38.8	-33.3
BIOMEDICAL	26	23	28	24	3.8	-14.3
CHEMICAL	180	162	160	154	-5.7	-3.8
CIVIL	123	114	100	101	-9.8	1.0
ELECTRICAL	139	118	181	161	14.1	-11.0
ENGINEERING SCIENCE	71	74	84	71	8.8	-15.5
INDUSTRIAL	6	16	10	8	29.1	-20.0
MECHANICAL	141	134	121	126	-7.4	4.1
METALLURGICAL/MATERIALS	198	160	178	152	-5.2	-14.6
MINING	5	3	11	10	48.3	-9.1
NUCLEAR	18	21	22	16	10.6	-27.3
PETROLEUM	6	6	2	3	-42.3	50.0
ENGINEERING, N.E.C.	48	56	42	41	-6.5	-2.4
PHYSICAL SCIENCES	3,664	3,844	3,997	3,781	4.4	-5.4
ASTRONOMY	119	128	122	133	1.3	9.0
CHEMISTRY	2,315	2,386	2,509	2,418	4.1	-3.6
PHYSICS	1,229	1,315	1,351	1,228	4.8	-9.1
PHYSICAL SCIENCES, N.E.C.	1	15	15	2	287.3	-86.7
ENVIRONMENTAL SCIENCES	288	277	311	288	3.9	-7.4
ATMOSPHERIC SCIENCES	33	41	42	30	12.8	-28.4
GEOSCIENCES	193	173	197	188	1.0	-4.6
OCEANOGRAPHY	51	49	59	62	7.6	5.1
ENVIRONMENTAL SCIENCES, N.E.C.	11	14	13	8	8.7	-38.5
MATHEMATICAL/COMPUTER SCIENCES	178	189	129	216	-14.9	67.4
COMPUTER SCIENCE	69	59	40	48	-23.9	20.0
MATHEMATICS AND APPLIED MATHEMATICS	89	110	79	158	-5.8	100.0
STATISTICS	20	20	10	10	-29.3	.0
LIFE SCIENCES	9,084	9,049	9,668	9,633	3.2	-.4
AGRICULTURAL SCIENCES	189	209	249	250	14.8	.4
BIOLOGICAL SCIENCES	5,126	5,271	5,649	5,571	5.0	-1.4
ANATOMY	187	182	183	198	-1.1	8.2
BIOCHEMISTRY	1,172	1,174	1,263	1,191	3.8	-5.7
BIOLOGY	724	716	606	654	-8.5	7.9
BIOMETRY/EPIDEMIOLOGY	40	47	41	36	1.2	-12.2
BIOPHYSICS	81	116	131	105	27.2	-19.8
BOTANY	124	161	178	209	19.8	17.4
CELL BIOLOGY	242	280	361	340	22.1	-5.8
ECOLOGY	17	19	33	24	39.3	-27.3
ENTOMOLOGY/PARASITOLOGY	81	100	109	105	16.0	-3.7
GENETICS	159	164	185	193	7.9	4.3
MICROBIOLOGY	629	644	705	731	5.9	3.7
NUTRITION	121	98	121	99	.0	-18.2
PATHOLOGY	326	363	367	362	6.1	-1.4
PHARMACOLOGY	493	495	599	630	10.2	5.2
PHYSIOLOGY	543	528	580	507	3.4	-12.6
ZOOLOGY	155	152	146	148	-2.9	1.4
BIOSCIENCES, N.E.C.	32	32	41	39	13.2	-4.9
HEALTH SCIENCES	3,769	3,569	3,770	3,812	*	1.1
ANESTHESIOLOGY	59	49	50	47	-7.9	-6.0
CANCER/ONCOLOGY	96	112	88	71	-4.3	-19.3
CARDIOLOGY	270	292	289	310	3.5	7.3
DENTISTRY	97	68	121	208	11.7	71.9
ENDOCRINOLOGY	90	96	121	97	16.0	-19.8
GASTROENTEROLOGY	84	106	92	106	4.7	15.2
HEMATOLOGY	129	125	123	111	-2.4	-9.8
NEUROLOGY	271	273	284	247	2.4	-13.0
NURSING	3	2	6	0	41.4	-100.0
OBSTETRICS/GYNECOLOGY	118	94	75	73	-20.3	-2.7
OPHTHALMOLOGY	108	96	111	116	1.4	4.5
OTORHINOLARYNGOLOGY	29	40	35	32	9.9	-8.6
PEDIATRICS	375	312	381	366	.8	-3.9
PHARMACEUTICAL SCIENCES	202	209	207	185	1.2	-10.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	100	-.6	13.6
PSYCHIATRY	197	199	180	178	-4.4	-1.1
PULMONARY DISEASE	132	114	113	123	-7.5	8.8
RADIOLOGY	116	134	116	150	.0	29.3
SPEECH PATHOLOGY/AUDIOLOGY	20	11	9	3	-32.9	-66.7
SURGERY	248	283	286	306	7.4	7.0
VETERINARY SCIENCES	15	37	17	26	6.5	52.9
CLINICAL MEDICINE, N.E.C.	950	750	898	885	-2.8	-1.4
HEALTH RELATED, N.E.C.	71	66	80	72	6.1	-10.0
PSYCHOLOGY	298	301	290	304	-1.4	4.8
SOCIAL SCIENCES	261	316	225	173	-7.2	-23.1
AGRICULTURAL ECONOMICS	6	8	6	9	.0	50.0
ANTHROPOLOGY	26	23	16	14	-21.6	-12.5
ECONOMICS (EXCEPT AGRICULTURAL)	82	121	22	10	-48.2	-54.5
GEOGRAPHY	2	12	16	4	182.8	-75.0
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	7	36.9	-53.3
LINGUISTICS	19	38	32	28	29.8	-12.5
POLITICAL SCIENCE	17	23	37	28	47.5	-24.3
SOCIOLOGY	73	57	54	52	-14.0	-3.7
SOCIOLOGY/ANTHROPOLOGY	2	1	0	1	-100.0	**
SOCIAL SCIENCES, N.E.C.	26	21	27	20	1.9	-25.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-31. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN ALL INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	3,347	3,552	4,099	4,479	10.7	9.3
ENGINEERING	50	66	82	85	28.1	3.7
AEROSPACE	0	0	2	0	**	-100.0
AGRICULTURAL	1	1	0	0	-100.0	**
BIOMEDICAL	6	5	6	6	.0	.0
CHEMICAL	12	21	11	21	-4.3	90.9
CIVIL	5	11	8	7	26.5	-12.5
ELECTRICAL	3	5	10	17	82.6	70.0
ENGINEERING SCIENCE	4	5	3	6	-13.4	100.0
INDUSTRIAL	1	0	3	1	73.2	-66.7
MECHANICAL	2	3	10	5	123.6	-50.0
METALLURGICAL/MATERIALS	11	12	16	16	20.6	.0
MINING	0	0	5	0	**	-100.0
NUCLEAR	2	1	4	2	41.4	-50.0
PETROLEUM	0	0	0	1	**	**
ENGINEERING, N.E.C.	3	2	4	3	15.5	-25.0
PHYSICAL SCIENCES	387	432	479	516	11.3	7.7
ASTRONOMY	10	13	10	15	.0	50.0
CHEMISTRY	306	334	370	401	10.0	8.4
PHYSICS	70	85	99	100	18.9	1.0
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	30	34	34	51	6.5	50.0
ATMOSPHERIC SCIENCES	1	2	4	3	100.0	-25.0
GEOSCIENCES	26	22	21	30	-10.1	42.9
OCEANOGRAPHY	3	9	9	17	73.2	88.9
ENVIRONMENTAL SCIENCES, N.E.C.	0	1	0	1	**	**
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	25	-7.1	31.6
COMPUTER SCIENCE	6	3	9	10	22.5	11.1
MATHEMATICS AND APPLIED MATHEMATICS	13	12	9	11	-16.8	22.2
STATISTICS	3	1	1	4	-42.3	300.0
LIFE SCIENCES	2,560	2,707	3,196	3,468	11.7	8.5
AGRICULTURAL SCIENCES	26	30	35	33	16.0	-5.7
BIOLOGICAL SCIENCES	1,695	1,795	2,020	2,213	9.2	9.6
ANATOMY	69	68	78	82	6.3	5.1
BIOCHEMISTRY	339	374	410	454	10.0	10.7
BIOLOGY	270	294	285	307	2.7	7.7
BIOMETRY/EPIDEMIOLOGY	28	25	23	17	-9.4	-26.1
BIOPHYSICS	22	38	25	26	6.6	4.0
BOTANY	39	59	62	89	26.1	43.5
CELL BIOLOGY	86	107	145	147	29.8	1.4
ECOLOGY	1	3	11	4	231.7	-63.6
ENTOMOLOGY/PARASITOLOGY	23	19	24	14	2.2	-41.7
GENETICS	72	87	105	118	20.8	12.4
MICROBIOLOGY	240	235	279	312	7.8	11.8
NUTRITION	49	31	50	39	1.0	-22.0
PATHOLOGY	103	114	101	182	-1.0	80.2
PHARMACOLOGY	140	129	156	166	5.6	6.4
PHYSIOLOGY	135	140	178	167	14.8	-6.2
ZOOLOGY	63	57	75	75	9.1	.0
BIOSCIENCES, N.E.C.	16	15	13	14	-9.9	7.7
HEALTH SCIENCES	839	882	1,141	1,222	16.6	7.1
ANESTHESIOLOGY	3	5	16	25	130.9	56.3
CANCER/ONCOLOGY	14	21	31	27	48.8	-12.9
CARDIOLOGY	28	42	44	74	25.5	68.2
DENTISTRY	22	18	22	43	.0	95.5
ENDOCRINOLOGY	15	24	29	45	39.0	55.2
GASTROENTEROLOGY	19	17	21	18	5.1	-14.3
HEMATOLOGY	22	23	30	42	16.8	40.0
NEUROLOGY	56	73	68	76	10.2	11.8
NURSING	4	7	2	0	-29.3	-100.0
OBSTETRICS/GYNECOLOGY	25	28	38	32	23.3	-15.8
OPHTHALMOLOGY	30	26	33	35	4.9	6.1
OTORHINOLARYNGOLOGY	6	6	6	3	.0	-50.0
PEDIATRICS	136	121	206	185	23.1	-10.2
PHARMACEUTICAL SCIENCES	33	24	36	53	4.4	47.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	60	47	52	43.0	10.6
PSYCHIATRY	95	97	112	114	8.6	1.8
PULMONARY DISEASE	11	13	9	20	-9.5	122.2
RADIOLOGY	22	22	39	35	33.1	-10.3
SPEECH PATHOLOGY/AUDIOLOGY	15	5	8	4	-27.0	-50.0
SURGERY	33	25	21	34	-20.2	61.9
VETERINARY SCIENCES	7	15	14	25	41.4	78.6
CLINICAL MEDICINE, N.E.C.	195	174	279	247	19.6	-11.5
HEALTH RELATED, N.E.C.	25	36	30	33	9.5	10.0
PSYCHOLOGY	156	173	181	219	7.7	21.0
SOCIAL SCIENCES	142	124	108	115	-12.8	6.5
AGRICULTURAL ECONOMICS	0	0	0	1	**	**
ANTHROPOLOGY	18	19	15	21	-8.7	40.0
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	3	-31.4	-62.5
GEOGRAPHY	3	3	7	1	52.8	-85.7
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	7	41.4	16.7
LINGUISTICS	11	16	15	19	16.8	26.7
POLITICAL SCIENCE	12	7	9	16	-13.4	77.8
SOCIOLOGY	42	42	36	37	-7.4	2.8
SOCIOLOGY/ANTHROPOLOGY	2	2	0	1	-100.0	**
SOCIAL SCIENCES, N.E.C.	34	7	12	9	-40.6	-25.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	293,754	298,159	306,569	309,835	320,580	333,881	340,180	347,414	2.5	2.1	2.4
ENGINEERING	64,579	64,091	65,664	65,692	68,673	72,038	76,746	80,462	2.9	4.8	3.2
AEROSPACE	1,636	1,449	1,496	1,450	1,476	1,730	1,876	1,933	2.3	3.0	2.4
AGRICULTURAL	588	639	709	742	740	742	802	875	5.3	9.1	5.8
BIOMEDICAL	904	928	870	936	1,006	963	1,012	1,064	1.9	5.1	2.4
CHEMICAL	4,916	5,070	5,071	5,184	5,420	5,888	6,292	6,952	4.2	10.5	5.1
CIVIL	11,924	11,172	11,839	11,991	12,404	12,728	13,494	13,735	2.1	1.8	2.0
ELECTRICAL	15,607	15,211	16,356	16,478	16,818	18,162	18,938	20,609	3.3	8.8	4.1
ENGINEERING SCIENCE	1,700	1,770	1,707	1,815	1,619	1,756	1,868	1,996	1.6	6.9	2.3
INDUSTRIAL	10,963	11,077	10,690	10,143	11,384	10,729	11,199	10,901	.4	-2.7	-.1
MECHANICAL	8,093	7,929	8,193	8,181	8,640	9,242	10,008	10,861	3.6	8.5	4.3
METALLURGICAL/MATERIALS	2,312	2,332	2,490	2,487	2,656	2,839	3,047	3,030	4.7	-.6	3.9
MINING	403	504	445	410	383	406	444	424	1.6	-4.5	.7
NUCLEAR	1,611	1,588	1,472	1,391	1,314	1,241	1,283	1,301	-3.7	1.4	-3.0
PETROLEUM	302	376	379	427	423	500	518	580	9.4	12.0	9.8
ENGINEERING, N.E.C.	3,620	4,046	3,947	4,057	4,390	5,112	5,965	6,201	8.7	4.0	8.0
PHYSICAL SCIENCES	24,529	24,813	24,809	24,703	24,907	25,398	25,783	26,518	.8	2.9	1.1
ASTRONOMY	711	681	644	618	638	628	597	632	-2.9	5.9	-1.7
CHEMISTRY	14,060	14,404	14,603	14,802	14,886	15,110	15,250	15,794	1.4	3.6	1.7
PHYSICS	9,644	9,639	9,471	9,195	9,316	9,579	9,861	10,021	.4	1.6	.5
PHYSICAL SCIENCES, N.E.C.	114	89	91	88	67	81	75	71	-6.7	-5.3	-6.5
ENVIRONMENTAL SCIENCES	10,961	11,522	12,039	11,972	12,312	12,481	12,751	13,469	2.6	5.6	3.0
ATMOSPHERIC SCIENCES	937	930	919	907	880	90[illegible]	905	922	-.6	1.9	-.2
GEOSCIENCES	6,744	7,150	7,414	7,540	7,878	8,023	8,191	8,948	3.3	9.2	4.1
OCEANOGRAPHY	1,710	1,738	1,913	1,833	1,829	1,847	1,933	1,934	2.1	.1	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	1,560	1,704	1,793	1,692	1,725	1,707	1,722	1,665	1.7	-3.3	.9
MATHEMATICAL/COMPUTER SCIENCES	21,343	21,667	21,071	21,474	22,622	24,981	27,108	30,428	4.1	12.2	5.2
COMPUTER SCIENCE	6,952	7,321	7,585	8,628	9,914	11,772	13,575	16,171	11.8	19.1	12.8
MATHEMATICS AND APPLIED MATHEMATICS	12,595	12,513	11,690	11,111	10,960	11,331	11,685	12,352	-1.2	5.7	-.3
STATISTICS	1,796	1,833	1,796	1,735	1,748	1,878	1,848	1,905	.5	3.1	.8
LIFE SCIENCES	73,601	77,338	83,584	86,064	87,612	90,831	91,087	91,344	3.6	.3	3.1
AGRICULTURAL SCIENCES	10,072	10,611	10,955	11,088	11,293	11,665	11,431	11,794	2.1	3.2	2.3
BIOLOGICAL SCIENCES	40,940	41,845	43,031	42,990	42,465	42,519	41,848	41,985	.4	.3	.4
ANATOMY	1,120	1,163	1,198	1,171	1,166	1,112	1,102	1,113	-.3	1.0	-.1
BIOCHEMISTRY	3,719	3,741	3,824	3,980	3,919	3,915	3,953	4,065	1.0	2.8	1.3
BIOLOGY	11,699	11,982	11,841	11,325	11,065	10,994	10,365	10,042	-2.0	-3.1	-2.2
BIOMETRY/EPIDEMIOLOGY	871	884	1,070	1,147	1,133	1,265	1,188	1,172	5.3	-1.3	4.3
BIOPHYSICS	698	594	570	525	525	485	463	442	-6.6	-4.5	-6.3
BOTANY	3,428	3,682	3,794	3,716	3,544	3,529	3,428	3,569	.0	4.1	.6
CELL BIOLOGY	651	611	671	700	748	841	903	1,055	5.6	16.8	7.1
ECOLOGY	789	885	1,020	1,090	954	1,080	1,003	970	4.1	-3.3	3.0
ENTOMOLOGY/PARASITOLOGY	1,574	1,595	1,602	1,683	1,697	1,722	1,664	1,540	.9	-7.5	-.3
GENETICS	814	832	954	939	902	896	872	921	1.2	5.6	1.8
MICROBIOLOGY	3,987	4,106	4,250	4,134	4,003	4,022	3,927	4,142	-.3	5.5	.5
NUTRITION	2,726	3,014	3,595	3,730	3,676	3,819	4,093	4,081	7.0	-.3	5.9
PATHOLOGY	1,268	1,349	1,415	1,448	1,520	1,494	1,494	1,496	2.8	.1	2.4
PHARMACOLOGY	1,602	1,705	1,790	1,896	1,996	2,005	2,010	2,079	3.9	3.4	3.8
PHYSIOLOGY	2,238	2,152	2,045	2,158	2,186	2,097	2,136	2,061	-.8	-3.5	-1.2
ZOOLOGY	3,493	3,244	3,025	2,981	2,863	2,650	2,604	2,490	-4.8	-4.4	-4.7
BIOSCIENCES, N.E.C.	263	306	367	367	568	593	643	747	16.1	16.2	16.1
HEALTH SCIENCES	22,589	24,882	29,598	31,986	33,854	36,647	37,808	37,565	9.0	-.6	7.5
ANESTHESIOLOGY	55	5	5	10	20	17	20	41	-15.5	105.0	-4.1
CANCER/ONCOLOGY	59	47	51	49	47	46	46	57	-4.1	23.9	-.5
CARDIOLOGY	23	2	5	3	3	17	3	3	-28.8	.0	-25.2
DENTISTRY	1,074	1,033	1,121	1,146	1,186	1,133	1,072	930	*	-13.2	-2.0
ENDOCRINOLOGY	42	36	37	34	49	53	51	54	3.3	5.9	3.7
GASTROENTEROLOGY	15	8	8	5	0	0	4	7	-19.8	75.0	-10.3
HEMATOLOGY	3	4	18	17	20	16	9	7	20.1	-22.2	12.9
NEUROLOGY	322	300	316	337	333	336	290	318	-1.7	9.7	-.2
NURSING	4,769	6,622	9,987	10,844	11,601	12,750	14,071	14,468	19.8	2.8	17.2
OBSTETRICS/GYNECOLOGY	53	59	27	26	36	6	13	24	-20.9	84.6	-10.7
OPHTHALMOLOGY	30	13	16	3	6	16	22	22	-5.0	.0	-4.3
OTORHINOLARYNGOLOGY	54	68	57	46	26	18	15	17	-19.2	13.3	-15.2
PEDIATRICS	183	215	152	137	131	138	149	154	-3.4	3.4	-2.4
PHARMACEUTICAL SCIENCES	2,245	2,217	2,487	2,509	2,458	2,470	2,590	2,528	2.4	-2.4	1.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,774	4,412	4,543	5,510	6,299	7,013	7,099	6,656	11.1	-6.2	8.4
PSYCHIATRY	176	147	150	140	133	63	106	129	-8.1	21.7	-4.3
PULMONARY DISEASE	7	0	3	10	1	15	9	14	4.3	55.6	10.4
RADIOLOGY	377	285	310	246	283	283	277	295	-5.0	6.5	-3.4
SPEECH PATHOLOGY/AUDIOLOGY	6,313	6,254	6,522	6,812	6,563	6,868	6,645	6,775	.9	2.0	1.0
SURGERY	153	153	129	121	79	103	108	115	-5.6	6.5	-4.0
VETERINARY SCIENCES	460	503	541	531	561	496	462	458	.1	-.9	-.1
CLINICAL MEDICINE, N.E.C.	272	240	314	294	353	406	380	424	5.7	11.6	6.5
HEALTH RELATED, N.E.C.	2,130	2,259	2,799	3,156	3,666	4,384	4,367	4,069	12.7	-6.8	9.7
PSYCHOLOGY	26,123	28,048	28,027	27,891	27,950	29,403	29,053	29,073	1.3	.1	1.1
SOCIAL SCIENCES	71,813	70,680	71,375	72,039	76,504	78,749	77,652	76,120	1.3	-2.0	.8
AGRICULTURAL ECONOMICS	2,090	2,135	2,177	2,204	2,176	2,295	2,231	2,183	1.1	-2.2	.6
ANTHROPOLOGY	6,226	6,206	6,188	5,893	5,911	5,923	5,805	5,688	-1.2	-2.0	-1.3
ECONOMICS (EXCEPT AGRICULTURAL)	11,035	10,996	11,138	11,247	11,313	12,270	12,407	12,744	2.0	2.7	2.1
GEOGRAPHY	2,958	3,086	2,899	2,851	2,650	2,791	2,800	2,773	-.9	-1.0	-.9
HISTORY AND PHILOSOPHY OF SCIENCE	303	322	300	281	265	280	248	256	-3.3	3.2	-2.4
LINGUISTICS	2,363	2,437	2,282	2,197	2,811	2,748	2,906	2,653	3.5	-8.7	1.7
POLITICAL SCIENCE	20,595	20,132	20,250	20,903	23,816	24,646	24,232	23,462	2.7	-3.2	1.9
SOCIOLOGY	8,817	8,635	8,168	7,450	7,626	7,637	7,378	6,969	-2.9	-5.5	-3.3
SOCIOLOGY/ANTHROPOLOGY	1,410	1,107	1,077	1,008	1,002	967	939	974	-6.6	3.7	-5.1
SOCIAL SCIENCES, N.E.C.	16,021	15,624	16,896	18,005	18,934	19,192	18,706	18,418	2.6	-1.5	2.0

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	204,153	205,904	209,043	210,675	216,491	224,895	226,780	235,085	1.8	3.7	2.0
ENGINEERING	39,001	38,599	38,794	38,780	40,193	42,814	45,329	49,465	2.5	9.1	3.5
AEROSPACE	1,172	1,063	1,059	1,021	1,037	1,208	1,322	1,332	2.0	.8	1.8
AGRICULTURAL	552	606	673	702	703	704	758	821	5.4	8.3	5.8
BIOMEDICAL	451	517	453	480	520	525	563	614	3.8	9.1	4.5
CHEMICAL	3,388	3,381	3,350	3,411	3,598	3,983	4,173	4,698	3.5	12.6	4.8
CIVIL	7,960	7,594	8,227	8,313	8,550	8,742	8,843	9,294	1.8	5.1	2.2
ELECTRICAL	9,016	8,773	9,232	9,041	9,307	9,925	10,345	11,597	2.3	12.1	3.7
ENGINEERING SCIENCE	1,174	1,246	1,148	1,188	1,008	1,119	1,233	1,342	.8	8.8	1.9
INDUSTRIAL	4,266	4,239	3,748	3,700	4,094	4,125	4,182	4,533	-.3	8.4	.9
MECHANICAL	5,579	5,409	5,243	5,357	5,528	5,957	6,511	7,209	2.6	10.7	3.7
METALLURGICAL/MATERIALS	1,396	1,420	1,480	1,494	1,618	1,687	1,790	1,815	4.2	1.4	3.8
MINING	321	410	359	323	300	323	362	352	2.0	-2.8	1.3
NUCLEAR	1,128	1,164	1,085	1,042	1,000	951	993	1,018	-2.1	2.5	-1.5
PETROLEUM	155	226	228	262	247	269	268	315	9.6	17.5	10.7
ENGINEERING, N.E.C.	2,443	2,551	2,509	2,446	2,683	3,296	3,986	4,525	8.5	13.5	9.2
PHYSICAL SCIENCES	17,050	17,225	17,237	17,203	17,431	17,736	18,012	18,805	.9	4.4	1.4
ASTRONOMY	483	452	420	411	421	421	393	420	-3.4	6.9	-2.0
CHEMISTRY	10,016	10,282	10,361	10,499	10,624	10,798	10,887	11,406	1.4	4.8	1.9
PHYSICS	6,450	6,402	6,365	6,217	6,319	6,448	6,669	6,908	.6	3.6	1.0
PHYSICAL SCIENCES, N.E.C.	101	89	91	76	67	69	63	71	-7.6	12.7	-4.9
ENVIRONMENTAL SCIENCES	9,012	9,572	9,997	9,912	10,380	10,493	10,706	11,303	2.9	5.6	3.3
ATMOSPHERIC SCIENCES	858	865	864	861	833	831	813	824	-.9	1.4	-.6
GEOSCIENCES	5,180	5,558	5,849	5,990	6,319	6,476	6,619	7,309	4.2	10.4	5.0
OCEANOGRAPHY	1,476	1,508	1,562	1,478	1,617	1,604	1,695	1,641	2.3	-3.2	1.5
ENVIRONMENTAL SCIENCES, N.E.C.	1,498	1,641	1,722	1,583	1,611	1,582	1,579	1,529	.9	-3.2	.3
MATHEMATICAL/COMPUTER SCIENCES	15,491	15,772	14,949	15,092	15,463	16,693	17,319	19,594	1.9	13.1	3.4
COMPUTER SCIENCE	5,133	5,515	5,321	5,845	6,380	7,478	8,037	9,701	7.8	20.7	9.5
MATHEMATICS AND APPLIED MATHEMATICS	8,925	8,786	8,160	7,813	7,633	7,664	7,741	8,272	-2.3	6.9	-1.1
STATISTICS	1,433	1,471	1,468	1,434	1,450	1,551	1,541	1,621	1.2	5.2	1.8
LIFE SCIENCES	58,007	60,529	63,886	65,545	66,464	69,001	68,236	68,873	2.7	.9	2.5
AGRICULTURAL SCIENCES	9,821	10,359	10,690	10,812	10,976	11,371	11,139	11,522	2.1	3.4	2.3
BIOLOGICAL SCIENCES	30,620	31,030	31,833	31,821	31,332	31,598	30,909	30,741	.2	-.5	.1
ANATOMY	781	820	826	810	803	727	720	688	-1.3	-4.4	-1.8
BIOCHEMISTRY	2,655	2,684	2,735	2,757	2,708	2,687	2,659	2,739	*	3.0	.4
BIOLOGY	7,423	7,607	7,449	7,251	7,092	7,233	6,743	6,382	-1.6	-5.4	-2.1
BIOMETRY/EPIDEMIOLOGY	488	444	589	666	645	750	672	632	5.5	-6.0	3.8
BIOPHYSICS	473	362	341	321	321	288	273	252	-8.8	-7.7	-8.6
BOTANY	3,179	3,430	3,550	3,448	3,279	3,254	3,154	3,300	-.1	4.6	.5
CELL BIOLOGY	364	374	430	441	477	514	521	568	6.2	9.0	6.6
ECOLOGY	729	818	962	1,030	902	1,030	948	922	4.5	-2.7	3.4
ENTOMOLOGY/PARASITOLOGY	1,501	1,532	1,542	1,610	1,629	1,664	1,604	1,490	1.1	-7.1	-.1
GENETICS	633	644	731	722	694	657	643	679	.3	5.6	1.0
MICROBIOLOGY	3,133	3,177	3,247	3,175	3,065	3,117	2,977	3,107	-.8	4.4	-.1
NUTRITION	2,182	2,391	2,847	2,985	2,893	3,029	3,235	3,196	6.8	-1.2	5.6
PATHOLOGY	849	765	813	847	910	923	945	955	1.8	1.1	1.7
PHARMACOLOGY	1,118	1,161	1,185	1,238	1,336	1,332	1,355	1,421	3.3	4.9	3.5
PHYSIOLOGY	1,671	1,566	1,487	1,484	1,469	1,450	1,480	1,421	-2.0	-4.0	-2.3
ZOOLOGY	3,291	3,061	2,846	2,769	2,649	2,454	2,430	2,339	-4.9	-3.7	-4.8
BIOSCIENCES, N.E.C.	150	194	253	267	460	489	550	650	24.2	18.2	23.3
HEALTH SCIENCES	17,566	19,140	21,363	22,912	24,156	26,032	26,188	26,610	6.9	1.6	6.1
ANESTHESIOLOGY	14	5	2	3	14	13	15	36	1.2	140.0	14.4
CANCER/ONCOLOGY	59	47	49	49	47	46	46	56	-4.1	21.7	-.7
CARDIOLOGY	20	2	2	2	1	0	0	0	-100.0	**	-100.0
DENTISTRY	574	631	694	708	691	716	697	649	3.3	-6.9	1.8
ENDOCRINOLOGY	41	33	32	31	49	53	51	53	3.7	3.9	3.7
GASTROENTEROLOGY	11	8	8	5	0	0	3	1	-19.5	-66.7	-29.0
HEMATOLOGY	3	3	1	3	10	8	6	6	12.2	.0	10.4
NEUROLOGY	177	169	192	213	216	202	169	178	-.8	5.3	.1
NURSING	4,302	5,414	6,975	7,790	8,297	9,396	9,809	10,405	14.7	6.1	13.4
OBSTETRICS/GYNECOLOGY	45	42	17	17	21	1	2	10	-40.5	400.0	-19.3
OPHTHALMOLOGY	11	7	13	2	4	11	13	18	2.8	38.5	7.3
OTORHINOLARYNGOLOGY	40	52	31	31	24	12	11	14	-19.4	27.3	-13.9
PEDIATRICS	161	199	130	114	66	84	92	99	-8.9	7.6	-6.7
PHARMACEUTICAL SCIENCES	1,484	1,492	1,599	1,590	1,581	1,650	1,708	1,714	2.4	.4	2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,753	3,167	3,183	3,560	4,179	4,479	4,466	3,985	8.4	-10.8	5.4
PSYCHIATRY	57	52	69	73	78	60	72	108	4.0	50.0	9.6
PULMONARY DISEASE	5	0	3	9	1	7	7	12	5.8	71.4	13.3
RADIOLOGY	263	180	214	182	220	216	179	211	-6.2	17.9	-3.1
SPEECH PATHOLOGY/AUDIOLOGY	5,187	5,295	5,558	5,765	5,500	5,675	5,507	5,775	1.0	4.9	1.5
SURGERY	132	119	96	100	65	83	68	90	-10.5	32.4	-5.3
VETERINARY SCIENCES	413	451	482	473	502	445	414	406	*	-1.9	-.2
CLINICAL MEDICINE, N.E.C.	241	211	296	259	301	323	312	302	4.4	-3.2	3.3
HEALTH RELATED, N.E.C.	1,573	1,561	1,717	1,933	2,289	2,552	2,541	2,482	8.3	-2.3	6.7
PSYCHOLOGY	17,061	16,936	16,742	16,204	16,165	16,792	16,552	16,951	-.5	2.4	-.1
SOCIAL SCIENCES	48,531	47,271	47,438	47,939	50,395	51,366	50,626	50,094	.7	-1.1	.5
AGRICULTURAL ECONOMICS	2,001	2,055	2,098	2,119	2,076	2,168	2,129	2,087	1.0	-2.0	.6
ANTHROPOLOGY	4,331	4,513	4,455	4,273	4,344	4,255	4,133	4,033	-.8	-2.4	-1.0
ECONOMICS (EXCEPT AGRICULTURAL)	7,113	6,906	6,873	7,092	6,938	7,506	7,465	7,820	.8	4.8	1.4
GEOGRAPHY	2,632	2,802	2,634	2,570	2,396	2,505	2,526	2,541	-.7	.6	-.5
HISTORY AND PHILOSOPHY OF SCIENCE	150	164	163	153	148	165	141	148	-1.0	5.0	-.2
LINGUISTICS	1,485	1,503	1,526	1,503	1,642	1,671	1,840	1,837	3.6	-.2	3.1
POLITICAL SCIENCE	11,948	11,266	11,408	11,365	12,961	13,451	13,298	13,094	1.8	-1.5	1.3
SOCIOLOGY	6,137	5,878	5,552	5,285	5,360	5,280	5,015	4,790	-3.3	-4.5	-3.5
SOCIOLOGY/ANTHROPOLOGY	1,081	816	763	709	675	647	589	623	-9.6	5.8	-7.6
SOCIAL SCIENCES, N.E.C.	11,653	11,368	11,966	12,870	13,855	13,718	13,490	13,121	2.5	-2.7	1.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	89,601	92,255	97,526	99,160	104,089	108,986	113,400	112,329	4.0	-0.9	3.3
ENGINEERING	25,578	25,492	26,870	26,912	28,480	29,224	31,417	30,997	3.5	-1.3	2.8
AEROSPACE	464	386	437	429	439	522	554	601	3.0	8.5	3.8
AGRICULTURAL	36	33	36	40	37	38	44	54	3.4	22.7	6.0
BIOMEDICAL	453	411	417	456	486	438	449	450	-.1	.2	-.1
CHEMICAL	1,528	1,689	1,721	1,773	1,822	1,905	2,119	2,254	5.6	6.4	5.7
CIVIL	3,964	3,578	3,612	3,678	3,854	3,986	4,651	4,441	2.7	-4.5	1.6
ELECTRICAL	6,591	6,438	7,124	7,437	7,511	8,237	8,593	9,012	4.5	4.9	4.6
ENGINEERING SCIENCE	526	524	559	627	611	637	635	654	3.2	3.0	3.2
INDUSTRIAL	6,697	6,838	6,942	6,443	7,290	6,604	7,017	6,368	.8	-9.2	-.7
MECHANICAL	2,514	2,520	2,950	2,824	3,112	3,285	3,497	3,652	5.7	4.4	5.5
METALLURGICAL/MATERIALS	916	912	1,010	993	1,038	1,152	1,257	1,215	5.4	-3.3	4.1
MINING	82	94	86	87	83	83	82	72	.0	-12.2	-1.8
NUCLEAR	483	424	387	349	314	290	290	283	-8.2	-2.4	-7.4
PETROLEUM	147	150	151	165	176	231	250	265	9.3	6.0	8.8
ENGINEERING, N.E.C.	1,177	1,495	1,438	1,611	1,707	1,816	1,979	1,676	9.0	-15.3	5.2
PHYSICAL SCIENCES	7,479	7,588	7,572	7,600	7,476	7,662	7,771	7,713	.6	-.7	.4
ASTRONOMY	228	229	224	207	217	207	204	212	-1.8	3.9	-1.0
CHEMISTRY	4,044	4,122	4,242	4,303	4,262	4,312	4,363	4,388	1.3	.6	1.2
PHYSICS	3,194	3,237	3,106	2,978	2,997	3,131	3,192	3,113	*	-2.5	-.4
PHYSICAL SCIENCES, N.E.C.	13	0	0	12	0	12	12	0	-1.3	-100.0	-100.0
ENVIRONMENTAL SCIENCES	1,949	1,950	2,042	2,060	1,932	1,988	2,045	2,166	.8	5.9	1.5
ATMOSPHERIC SCIENCES	79	65	55	46	47	73	92	98	2.6	6.5	3.1
GEOSCIENCES	1,574	1,592	1,565	1,550	1,559	1,547	1,572	1,639	*	4.3	.6
OCEANOGRAPHY	234	230	351	355	212	243	238	293	.3	23.1	3.3
ENVIRONMENTAL SCIENCES, N.E.C.	62	63	71	109	114	125	143	136	14.9	-4.9	11.9
MATHEMATICAL/COMPUTER SCIENCES	5,852	5,895	6,122	6,382	7,159	8,288	9,789	10,834	9.0	10.7	9.2
COMPUTER SCIENCE	1,819	1,806	2,264	2,783	3,534	4,294	5,538	6,470	20.4	16.8	19.9
MATHEMATICS AND APPLIED MATHEMATICS	3,670	3,727	3,530	3,298	3,327	3,667	3,944	4,080	1.2	3.4	1.5
STATISTICS	363	362	328	301	298	327	307	284	-2.8	-7.5	-3.4
LIFE SCIENCES	15,594	16,809	19,698	20,519	21,148	21,830	22,851	22,471	6.6	-1.7	5.4
AGRICULTURAL SCIENCES	251	252	265	276	317	294	292	272	2.6	-6.8	1.2
BIOLOGICAL SCIENCES	10,320	10,815	11,198	11,169	11,133	10,921	10,939	11,244	1.0	2.8	1.2
ANATOMY	339	343	372	361	363	385	382	425	2.0	11.3	3.3
BIOCHEMISTRY	1,064	1,057	1,089	1,223	1,211	1,228	1,294	1,326	3.3	2.5	3.2
BIOLOGY	4,276	4,375	4,392	4,074	3,973	3,761	3,622	3,660	-2.7	1.0	-2.2
BIOMETRY/EPIDEMIOLOGY	383	440	481	481	488	515	516	540	5.1	4.7	5.0
BIOPHYSICS	225	232	229	204	204	197	190	190	-2.8	.0	-2.4
BOTANY	249	252	244	268	265	275	274	269	1.6	-1.8	1.1
CELL BIOLOGY	287	237	241	259	271	327	382	487	4.9	27.5	7.8
ECOLOGY	60	67	58	60	52	50	55	48	-1.4	-12.7	-3.1
ENTOMOLOGY/PARASITOLOGY	73	63	60	73	68	58	60	50	-3.2	-16.7	-5.3
GENETICS	181	188	223	217	208	239	229	242	4.0	5.7	4.2
MICROBIOLOGY	854	929	1,003	959	938	905	950	1,035	1.8	8.9	2.8
NUTRITION	544	623	748	745	783	790	858	885	7.9	3.1	7.2
PATHOLOGY	419	584	602	601	610	571	549	541	4.6	-1.5	3.7
PHARMACOLOGY	484	544	605	658	660	673	655	658	5.2	.5	4.5
PHYSIOLOGY	567	586	558	674	717	647	656	640	2.5	-2.4	1.7
ZOOLOGY	202	183	179	212	214	196	174	151	-2.5	-13.2	-4.1
BIOSCIENCES, N.E.C.	113	112	114	100	108	104	93	97	-3.2	4.3	-2.2
HEALTH SCIENCES	5,023	5,742	8,235	9,074	9,698	10,615	11,620	10,955	15.0	-5.7	11.8
ANESTHESIOLOGY	41	0	3	7	6	4	5	5	-29.6	.0	-26.0
CANCER/ONCOLOGY	0	0	2	0	0	0	0	1	**	**	**
CARDIOLOGY	3	0	3	1	2	17	3	3	.0	.0	.0
DENTISTRY	500	402	427	438	495	417	375	281	-4.7	-25.1	-7.9
ENDOCRINOLOGY	1	3	5	3	0	0	0	1	-100.0	**	.0
GASTROENTEROLOGY	4	0	0	0	0	0	1	6	-20.6	500.0	6.0
HEMATOLOGY	0	1	17	14	10	8	3	1	**	-66.7	**
NEUROLOGY	145	131	124	124	117	134	121	140	-3.0	15.7	-.5
NURSING	467	1,208	3,012	3,054	3,304	3,354	4,262	4,063	44.6	-4.7	36.2
OBSTETRICS/GYNECOLOGY	8	17	10	9	15	5	11	14	5.5	27.3	8.3
OPHTHALMOLOGY	19	6	3	1	2	5	9	4	-11.7	-55.6	-20.0
OTORHINOLARYNGOLOGY	14	16	26	15	2	6	4	3	-18.8	-25.0	-19.8
PEDIATRICS	22	16	22	23	65	54	57	55	17.2	-3.5	14.0
PHARMACEUTICAL SCIENCES	761	725	888	919	877	820	882	814	2.5	-7.7	1.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,021	1,245	1,360	1,950	2,120	2,534	2,633	2,671	17.1	1.4	14.7
PSYCHIATRY	119	95	81	67	55	3	34	21	-18.8	-38.2	-21.9
PULMONARY DISEASE	2	0	0	1	0	8	2	2	.0	.0	.0
RADIOLOGY	114	105	96	64	63	67	98	84	-2.5	-14.3	-4.3
SPEECH PATHOLOGY/AUDIOLOGY	1,126	959	961	1,047	1,063	1,193	1,138	1,000	.2	-12.1	-1.7
SURGERY	21	34	33	21	14	20	40	25	11.3	-37.5	2.5
VETERINARY SCIENCES	47	52	59	58	59	51	48	52	.4	8.3	1.5
CLINICAL MEDICINE, N.E.C.	31	29	18	35	52	83	68	122	14.0	79.4	21.6
HEALTH RELATED, N.E.C.	557	698	1,082	1,223	1,377	1,832	1,826	1,587	21.9	-13.1	16.1
PSYCHOLOGY	9,862	11,112	11,285	11,687	11,785	12,611	12,501	12,122	4.0	-3.0	3.0
SOCIAL SCIENCES	23,287	23,409	23,937	24,100	26,109	27,383	27,026	26,026	2.5	-3.7	1.6
AGRICULTURAL ECONOMICS	89	80	79	85	100	127	102	96	2.3	-5.9	1.1
ANTHROPOLOGY	1,895	1,693	1,733	1,620	1,567	1,668	1,672	1,655	-2.1	-1.0	-1.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,922	4,090	4,265	4,155	4,375	4,764	4,942	4,924	3.9	-.4	3.3
GEOGRAPHY	326	284	265	281	254	286	274	232	-2.9	-15.3	-4.7
HISTORY AND PHILOSOPHY OF SCIENCE	153	158	137	128	117	115	107	108	-5.8	.9	-4.9
LINGUISTICS	878	934	756	694	1,169	1,077	1,066	816	3.3	-23.5	-1.0
POLITICAL SCIENCE	8,647	8,866	8,842	9,538	10,855	11,195	10,934	10,368	4.0	-5.2	2.6
SOCIOLOGY	2,680	2,757	2,616	2,165	2,266	2,357	2,363	2,179	-2.1	-7.8	-2.9
SOCIOLOGY/ANTHROPOLOGY	329	291	314	299	327	320	350	351	1.0	.3	.9
SOCIAL SCIENCES, N.E.C.	4,368	4,256	4,930	5,135	5,079	5,474	5,216	5,297	3.0	1.6	2.8

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. — SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-82

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	293,754	298,159	306,569	309,835	320,580	333,881	340,180	347,414	2.5	2.1	2.4
NEW ENGLAND	21,004	22,078	22,209	22,917	23,970	25,633	26,215	26,854	3.8	2.4	3.6
CONNECTICUT	3,361	3,686	3,418	3,474	3,626	3,902	4,053	4,182	3.2	3.2	3.2
MAINE	446	512	469	487	475	467	395	416	-2.0	5.3	-1.0
MASSACHUSETTS	14,253	15,031	15,444	16,087	16,904	18,285	18,730	19,099	4.7	2.0	4.3
NEW HAMPSHIRE	652	676	723	666	701	752	733	782	2.0	6.7	2.6
RHODE ISLAND	1,815	1,688	1,675	1,753	1,758	1,700	1,739	1,740	-.7	.1	-.6
VERMONT	477	485	480	450	506	527	565	635	2.9	12.4	4.2
MIDDLE ATLANTIC	53,881	52,268	54,373	54,340	56,764	61,005	64,822	64,670	3.1	-.2	2.6
NEW JERSEY	7,804	7,186	7,298	8,795	8,551	9,182	9,332	9,177	3.0	-1.7	2.3
NEW YORK	33,139	31,159	33,111	31,868	33,766	36,071	38,564	38,541	2.6	-.1	2.2
PENNSYLVANIA	12,938	13,923	13,964	13,677	14,147	15,752	16,926	16,952	4.6	.2	3.9
EAST NORTH CENTRAL	55,777	55,917	57,075	57,016	58,440	60,007	59,761	60,809	1.2	1.8	1.2
ILLINOIS	13,869	13,744	14,650	14,916	15,499	16,122	16,073	16,268	2.5	1.2	2.3
INDIANA	6,997	7,284	7,253	7,113	7,101	7,345	7,694	7,921	1.6	3.0	1.8
MICHIGAN	12,483	12,209	12,581	12,272	13,005	12,744	12,132	12,553	-.5	3.5	.1
OHIO	13,953	14,633	14,802	15,125	15,268	15,773	15,922	16,191	2.2	1.7	2.1
WISCONSIN	8,475	8,047	7,789	7,590	7,567	8,023	7,940	7,876	-1.1	-.8	-1.0
WEST NORTH CENTRAL	21,300	21,993	22,536	22,793	22,933	23,723	23,552	24,096	1.7	2.3	1.8
IOWA	3,653	3,982	4,006	4,268	4,468	4,541	4,385	4,682	3.1	6.8	3.6
KANSAS	3,693	3,895	4,178	4,400	4,272	4,356	4,234	4,218	2.3	-.4	1.9
MINNESOTA	5,247	4,973	4,814	4,814	4,993	5,097	5,209	5,203	-.1	-.1	-.1
MISSOURI	5,944	6,091	6,030	5,742	5,699	5,983	5,813	6,031	-.4	3.8	.2
NEBRASKA	1,470	1,730	2,112	2,073	2,111	2,138	2,326	2,284	7.9	-1.8	6.5
NORTH DAKOTA	742	809	836	858	776	907	913	946	3.5	3.6	3.5
SOUTH DAKOTA	551	513	560	638	614	701	672	732	3.4	8.9	4.1
SOUTH ATLANTIC	40,564	41,981	44,006	45,528	47,568	49,519	51,214	52,119	4.0	1.8	3.6
DELAWARE	908	902	884	884	1,031	1,084	1,135	1,173	3.8	3.3	3.7
DISTRICT OF COLUMBIA	7,314	7,600	9,050	8,714	9,059	8,830	9,641	8,656	4.7	-10.2	2.4
FLORIDA	7,013	7,397	7,198	7,974	8,808	9,623	10,333	10,916	6.7	5.6	6.5
GEORGIA	4,816	4,832	4,852	5,087	5,300	5,672	5,766	5,939	3.0	3.0	3.0
MARYLAND	5,557	5,524	5,675	5,594	5,596	5,185	5,431	5,505	-.4	1.4	-.1
NORTH CAROLINA	5,739	5,764	5,886	6,329	6,651	6,725	6,664	7,116	2.5	6.8	3.1
SOUTH CAROLINA	2,539	2,720	2,833	2,765	2,780	2,760	2,826	2,944	1.8	4.2	2.1
VIRGINIA	5,037	5,389	5,686	5,875	6,107	6,931	7,011	7,153	5.7	2.0	5.1
WEST VIRGINIA	1,641	1,853	1,942	2,302	2,236	2,709	2,407	2,717	6.6	12.9	7.5
EAST SOUTH CENTRAL	11,248	12,207	12,795	13,018	13,121	13,163	12,655	12,962	2.0	2.4	2.0
ALABAMA	2,328	2,809	3,181	3,356	3,485	3,350	3,276	3,301	5.9	.8	5.1
KENTUCKY	2,254	2,386	2,475	2,454	2,565	2,571	2,709	2,842	3.1	4.9	3.4
MISSISSIPPI	1,765	1,824	1,858	1,970	1,895	1,893	1,841	1,953	.7	6.1	1.5
TENNESSEE	4,901	5,188	5,281	5,238	5,176	5,349	4,829	4,866	-.2	.8	-.1
WEST SOUTH CENTRAL	23,624	24,555	26,434	26,813	27,175	28,238	28,397	30,572	3.1	7.7	3.8
ARKANSAS	857	948	1,044	1,056	1,065	1,060	1,164	1,224	5.2	5.2	5.2
LOUISIANA	2,798	2,883	3,100	3,484	3,518	3,596	3,862	4,090	5.5	5.9	5.6
OKLAHOMA	3,455	3,344	3,726	3,757	3,715	3,855	3,475	3,721	.1	7.1	1.1
TEXAS	16,514	17,380	18,564	18,516	18,877	19,727	19,896	21,537	3.2	8.2	3.9
MOUNTAIN	20,396	19,941	19,827	20,077	20,496	21,102	21,428	23,023	.8	7.4	1.7
ARIZONA	4,791	4,707	4,729	4,752	5,027	5,228	5,593	6,474	2.6	15.8	4.4
COLORADO	7,684	7,124	6,821	6,608	6,883	6,881	6,885	6,923	-1.8	.6	-1.5
IDAHO	841	975	1,192	1,191	951	968	913	939	1.4	2.8	1.6
MONTANA	756	774	763	772	755	830	810	976	1.2	20.5	3.7
NEVADA	455	537	469	435	477	450	464	413	.3	-11.0	-1.4
NEW MEXICO	1,970	1,915	1,809	2,059	2,086	2,203	2,296	2,372	2.6	3.3	2.7
UTAH	3,218	3,214	3,369	3,582	3,666	3,882	3,737	4,124	2.5	10.4	3.6
WYOMING	681	695	675	678	651	660	730	802	1.2	9.9	2.4
PACIFIC	44,507	45,805	45,708	45,785	48,572	49,538	50,152	50,201	2.0	.1	1.7
ALASKA	173	208	228	251	270	272	320	355	10.8	10.9	10.8
CALIFORNIA	35,412	35,807	35,019	34,935	37,545	37,918	38,994	39,345	1.6	.9	1.5
HAWAII	1,484	1,496	1,543	1,501	1,453	2,004	2,012	2,053	5.2	2.0	4.7
OREGON	2,852	2,995	3,135	3,262	3,299	3,216	3,141	3,175	1.6	1.1	1.5
WASHINGTON	4,586	5,299	5,783	5,836	6,005	6,128	5,685	5,273	3.6	-7.2	2.0
OUTLYING AREAS	1,453	1,414	1,606	1,548	1,541	1,953	1,984	2,108	5.3	6.3	5.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, ALL AREAS:	230,686	234,371	237,676	1.4	103,195	105,809	109,738	3.7
TOTAL US CITIZENS	181,951	181,698	182,233	.3	-	-	101,176	**
BLACK, NON-HISPANIC	5,597	5,408	5,968	10.4	3,748	3,546	4,281	20.7
AMERICAN INDIAN/ALASKAN NATIVE	581	471	625	32.7	193	173	327	89.0
ASIAN/PACIFIC ISLANDER	5,078	4,594	5,246	14.2	2,246	2,269	2,788	22.9
HISPANIC	4,563	4,145	5,062	22.1	1,930	2,193	2,986	36.2
WHITE, NON-HISPANIC	140,840	133,282	148,350	11.3	63,745	62,146	79,532	28.0
OTHER OR UNKNOWN	25,292	33,798	16,982	-49.8	-	-	11,262	**
FOREIGN	48,735	52,673	55,443	5.3	-	-	8,562	**
TOTAL, ENGINEERING:	42,300	45,203	49,106	8.6	29,738	31,543	31,356	-.6
TOTAL US CITIZENS	24,675	25,854	28,148	8.9	-	-	28,048	**
BLACK, NON-HISPANIC	440	409	500	22.2	458	477	599	25.6
AMERICAN INDIAN/ALASKAN NATIVE	26	67	72	7.5	50	44	82	86.4
ASIAN/PACIFIC ISLANDER	1,491	1,075	1,345	25.1	1,032	956	1,112	16.3
HISPANIC	566	483	580	20.1	461	424	466	9.9
WHITE, NON-HISPANIC	18,537	18,201	21,306	17.1	18,378	18,906	20,462	8.2
OTHER OR UNKNOWN	3,615	5,619	4,345	-22.7	-	-	5,327	**
FOREIGN	17,625	19,349	20,958	8.3	-	-	3,308	**
TOTAL, PHYSICAL SCIENCES:	22,259	22,603	23,365	3.4	3,139	3,180	3,153	-.8
TOTAL US CITIZENS	16,670	16,524	17,062	3.3	-	-	2,809	**
BLACK, NON-HISPANIC	262	274	339	23.7	70	71	95	33.8
AMERICAN INDIAN/ALASKAN NATIVE	13	15	29	93.3	1	1	12	1100.0
ASIAN/PACIFIC ISLANDER	495	452	503	11.3	81	113	126	11.5
HISPANIC	291	317	376	18.6	49	40	86	115.0
WHITE, NON-HISPANIC	13,636	13,259	14,437	8.9	1,924	1,904	2,306	21.1
OTHER OR UNKNOWN	1,973	2,207	1,378	-37.6	-	-	184	**
FOREIGN	5,589	6,079	6,303	3.7	-	-	344	**
TOTAL, ENVIRONMENTAL SCIENCES:	10,112	10,332	10,747	4.0	2,369	2,419	2,722	12.5
TOTAL US CITIZENS	8,800	8,896	9,174	3.1	-	-	2,541	**
BLACK, NON-HISPANIC	52	57	57	.0	18	20	12	-40.0
AMERICAN INDIAN/ALASKAN NATIVE	36	9	15	66.7	0	5	3	-40.0
ASIAN/PACIFIC ISLANDER	129	95	124	30.5	17	15	40	166.7
HISPANIC	107	124	110	-11.3	19	20	42	110.0
WHITE, NON-HISPANIC	7,052	6,768	7,954	17.5	1,637	1,649	2,282	38.4
OTHER OR UNKNOWN	1,424	1,843	914	-50.4	-	-	162	**
FOREIGN	1,312	1,436	1,573	9.5	-	-	181	**
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	15,253	16,136	18,181	12.7	9,728	10,972	12,247	11.6
TOTAL US CITIZENS	10,229	10,408	11,699	12.4	-	-	10,898	**
BLACK, NON-HISPANIC	144	179	253	41.3	193	231	348	50.6
AMERICAN INDIAN/ALASKAN NATIVE	31	6	30	400.0	15	3	24	700.0
ASIAN/PACIFIC ISLANDER	339	430	557	29.5	348	395	491	24.3
HISPANIC	159	196	250	27.6	69	82	171	108.5
WHITE, NON-HISPANIC	7,364	7,761	9,101	17.3	5,581	5,812	8,674	49.2
OTHER OR UNKNOWN	2,192	1,836	1,508	-17.9	-	-	1,190	**
FOREIGN	5,024	5,728	6,482	13.2	-	-	1,349	**

CONTINUED ON NEXT PAGE

TABLE C-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

- CONTINUED

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, AGRICULTURAL SCIENCES:	9,660	9,696	9,675	-0.2	2,005	1,735	2,119	22.1
TOTAL US CITIZENS	7,484	7,398	7,381	-.2	-	-	1,925	**
BLACK, NON-HISPANIC	85	88	108	22.7	11	11	18	63.6
AMERICAN INDIAN/ALASKAN NATIVE	18	8	11	37.5	0	3	11	266.7
ASIAN/PACIFIC ISLANDER	125	97	114	17.5	19	15	19	26.7
HISPANIC	217	132	159	20.5	61	32	38	18.8
WHITE, NON-HISPANIC	6,176	6,171	6,402	3.7	1,316	1,288	1,673	29.9
OTHER OR UNKNOWN	863	902	587	-34.9	-	-	166	**
FOREIGN	2,176	2,298	2,294	-.2	-	-	194	**
TOTAL, BIOLOGICAL SCIENCES:	35,620	35,259	35,212	-.1	6,899	6,589	6,773	2.8
TOTAL US CITIZENS	31,304	30,647	30,373	-.9	-	-	6,303	**
BLACK, NON-HISPANIC	549	513	636	24.0	158	159	200	25.8
AMERICAN INDIAN/ALASKAN NATIVE	47	29	59	103.4	5	3	13	333.3
ASIAN/PACIFIC ISLANDER	882	768	875	13.9	139	115	163	41.7
HISPANIC	579	412	580	40.8	94	79	116	46.8
WHITE, NON-HISPANIC	25,794	24,291	26,434	8.8	4,677	4,296	5,243	22.0
OTHER OR UNKNOWN	3,453	4,634	1,789	-61.4	-	-	568	**
FOREIGN	4,316	4,612	4,839	4.9	-	-	470	**
TOTAL, HEALTH SCIENCES:	22,571	22,397	21,207	-5.3	14,076	15,411	16,358	6.1
TOTAL US CITIZENS	20,567	20,269	18,993	-6.3	-	-	15,770	**
BLACK, NON-HISPANIC	712	667	687	3.0	595	525	648	23.4
AMERICAN INDIAN/ALASKAN NATIVE	97	80	101	26.2	30	24	43	79.2
ASIAN/PACIFIC ISLANDER	541	460	578	25.7	223	182	292	60.4
HISPANIC	572	325	514	58.2	212	197	284	44.2
WHITE, NON-HISPANIC	16,218	14,887	15,924	7.0	9,898	9,955	13,923	39.9
OTHER OR UNKNOWN	2,427	3,850	1,189	-69.1	-	-	580	**
FOREIGN	2,004	2,128	2,214	4.0	-	-	588	**
TOTAL, PSYCHOLOGY:	21,572	21,535	21,144	-1.8	7,831	7,518	7,929	5.5
TOTAL US CITIZENS	20,517	20,703	20,246	-2.2	-	-	7,710	**
BLACK, NON-HISPANIC	830	789	801	1.5	195	263	328	24.7
AMERICAN INDIAN/ALASKAN NATIVE	144	33	53	60.6	37	28	30	7.1
ASIAN/PACIFIC ISLANDER	248	291	276	-5.2	41	43	77	79.1
HISPANIC	851	875	944	7.9	216	191	311	62.8
WHITE, NON-HISPANIC	14,764	13,063	15,604	19.5	4,242	3,997	6,358	59.1
OTHER OR UNKNOWN	3,680	5,652	2,568	-54.6	-	-	606	**
FOREIGN	1,055	832	898	7.9	-	-	219	**
TOTAL, SOCIAL SCIENCES:	51,339	51,210	49,039	-4.2	27,410	26,442	27,081	2.4
TOTAL US CITIZENS	41,705	40,999	39,157	-4.5	-	-	25,172	**
BLACK, NON-HISPANIC	2,523	2,432	2,587	6.4	2,050	1,789	2,033	13.6
AMERICAN INDIAN/ALASKAN NATIVE	169	224	255	13.8	55	62	109	75.8
ASIAN/PACIFIC ISLANDER	828	926	874	-5.6	346	435	468	7.6
HISPANIC	1,221	1,281	1,549	20.9	749	1,128	1,472	30.5
WHITE, NON-HISPANIC	31,299	28,881	31,188	8.0	16,092	14,339	18,611	29.8
OTHER OR UNKNOWN	5,665	7,255	2,704	-62.7	-	-	2,479	**
FOREIGN	9,634	10,211	9,882	-3.2	-	-	1,909	**

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED PRIOR TO 1982.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	210,321	214,089	217,453	216,608	223,409	230,686	234,371	237,676	1.8	1.4	1.8
ENGINEERING	37,083	36,434	37,008	37,390	39,700	42,300	45,203	49,106	3.4	8.6	4.1
AEROSPACE	1,225	1,153	1,178	1,135	1,151	1,324	1,480	1,519	3.2	2.6	3.1
AGRICULTURAL	501	529	620	618	645	631	672	739	5.0	10.0	5.7
BIOMEDICAL	796	755	715	742	827	788	853	908	1.2	6.4	1.9
CHEMICAL	3,482	3,657	3,843	3,898	4,167	4,440	4,936	5,546	6.0	12.4	6.9
CIVIL	7,226	6,699	7,207	7,457	7,797	8,168	8,895	9,513	3.5	6.9	4.0
ELECTRICAL	8,186	8,063	8,336	8,334	8,851	9,712	10,194	11,293	3.7	10.8	4.7
ENGINEERING SCIENCE	1,153	1,181	1,185	1,260	1,129	1,219	1,274	1,339	1.7	5.1	2.2
INDUSTRIAL	4,043	3,607	3,424	3,325	3,844	3,738	3,620	3,816	-1.8	5.4	-.8
MECHANICAL	4,854	4,922	4,836	4,927	5,423	5,817	6,432	7,224	4.8	12.3	5.8
METALLURGICAL/MATERIALS	1,780	1,853	1,941	1,961	2,120	2,236	2,436	2,453	5.4	.7	4.7
MINING	339	400	358	327	292	318	372	351	1.6	-5.6	.5
NUCLEAR	1,255	1,222	1,154	1,127	1,075	1,043	1,032	1,042	-3.2	1.0	-2.6
PETROLEUM	228	323	301	328	336	370	390	470	9.4	20.5	10.9
ENGINEERING, N.E.C.	2,015	2,070	1,910	1,951	2,043	2,496	2,617	2,893	4.5	10.5	5.3
PHYSICAL SCIENCES	21,274	21,582	21,741	21,485	21,781	22,259	22,603	23,365	1.0	3.4	1.3
ASTRONOMY	659	621	599	581	600	593	565	590	-2.5	4.4	-1.6
CHEMISTRY	12,014	12,389	12,577	12,680	12,842	13,081	13,168	13,767	1.5	4.5	2.0
PHYSICS	8,506	8,500	8,488	8,162	8,287	8,519	8,811	8,955	.6	1.6	.7
PHYSICAL SCIENCES, N.E.C.	95	72	77	62	52	66	59	53	-7.6	-10.2	-8.0
ENVIRONMENTAL SCIENCES	8,989	9,528	9,847	9,830	10,037	10,112	10,332	10,747	2.3	4.0	2.6
ATMOSPHERIC SCIENCES	832	822	807	786	776	777	766	805	-1.4	5.1	-.5
GEOSCIENCES	5,636	6,029	6,221	6,287	6,483	6,674	6,760	7,219	3.1	6.8	3.6
OCEANOGRAPHY	1,414	1,468	1,509	1,491	1,488	1,530	1,589	1,551	2.0	-2.4	1.3
ENVIRONMENTAL SCIENCES, N.E.C.	1,107	1,209	1,310	1,266	1,290	1,131	1,217	1,172	1.6	-3.7	.8
MATHEMATICAL/COMPUTER SCIENCES	14,125	14,525	13,975	13,690	14,177	15,253	16,136	18,181	2.2	12.7	3.7
COMPUTER SCIENCE	4,086	4,368	4,291	4,503	5,160	6,007	6,589	8,168	8.3	24.0	10.4
MATHEMATICS AND APPLIED MATHEMATICS	8,619	8,683	8,218	7,796	7,611	7,741	8,010	8,451	-1.2	5.5	-.3
STATISTICS	1,420	1,474	1,466	1,391	1,406	1,505	1,537	1,562	1.3	1.6	1.4
LIFE SCIENCES	59,635	62,010	64,458	65,311	66,573	67,851	67,352	66,094	2.0	-1.9	1.5
AGRICULTURAL SCIENCES	8,512	9,053	9,315	9,259	9,383	9,660	9,696	9,675	2.2	-.2	1.8
BIOLOGICAL SCIENCES	34,795	35,438	36,021	35,764	35,641	35,620	35,259	35,212	.2	-.1	.2
ANATOMY	1,019	1,073	1,081	1,045	1,074	1,021	994	969	-.4	-2.5	-.7
BIOCHEMISTRY	3,448	3,506	3,593	3,686	3,612	3,642	3,680	3,802	1.1	3.3	1.4
BIOLOGY	8,943	9,117	8,942	8,503	8,387	8,219	7,856	7,732	-2.1	-1.6	-2.1
BIOMETRY/EPIDEMIOLOGY	767	763	899	981	971	1,049	1,003	923	4.6	-8.0	2.7
BIOPHYSICS	606	573	553	513	498	476	457	425	-4.6	-7.0	-4.9
BOTANY	3,020	3,257	3,385	3,301	3,198	3,131	3,006	3,118	-.1	3.7	.5
CELL BIOLOGY	620	572	630	680	723	816	881	1,029	6.0	16.8	7.5
ECOLOGY	728	789	927	970	819	937	917	887	3.9	-3.3	2.9
ENTOMOLOGY/PARASITOLOGY	1,382	1,416	1,389	1,480	1,463	1,525	1,452	1,340	.8	-7.7	-.4
GENETICS	754	761	881	851	812	821	811	860	1.2	6.0	1.9
MICROBIOLOGY	3,556	3,594	3,669	3,520	3,514	3,603	3,502	3,641	-.3	4.0	.3
NUTRITION	2,327	2,488	2,746	2,831	2,945	2,903	3,078	3,020	4.8	-1.9	3.8
PATHOLOGY	919	969	950	1,003	1,056	1,037	1,049	1,015	2.2	-3.2	1.4
PHARMACOLOGY	1,501	1,589	1,665	1,754	1,851	1,884	1,910	1,945	4.1	1.8	3.8
PHYSIOLOGY	2,046	1,960	1,900	1,870	1,887	1,850	1,919	1,808	-1.1	-5.8	-1.8
ZOOLOGY	3,031	2,832	2,589	2,530	2,405	2,254	2,247	2,137	-4.9	-4.9	-4.9
BIOSCIENCES, N.E.C.	128	179	222	246	426	452	497	561	25.4	12.9	23.5
HEALTH SCIENCES	16,328	17,519	19,122	20,288	21,549	22,571	22,397	21,207	5.4	-5.3	3.8
ANESTHESIOLOGY	55	5	3	7	18	13	16	21	-18.6	31.3	-12.9
CANCER/ONCOLOGY	55	42	51	49	45	44	44	55	-3.7	25.0	.0
CARDIOLOGY	22	0	3	3	3	17	3	3	-28.3	.0	-24.8
DENTISTRY	914	888	926	933	1,058	989	871	808	-.8	-7.2	-1.7
ENDOCRINOLOGY	42	33	31	33	43	48	46	51	1.5	10.9	2.8
GASTROENTEROLOGY	11	8	8	5	0	0	3	7	-19.5	133.3	-6.3
HEMATOLOGY	3	3	7	9	14	8	9	6	20.1	-33.3	10.4
NEUROLOGY	316	291	307	333	325	327	288	311	-1.5	8.0	-.2
NURSING	2,776	3,821	5,256	5,597	6,141	6,240	6,735	6,232	15.9	-7.5	12.2
OBSTETRICS/GYNECOLOGY	51	52	25	23	33	5	10	20	-23.8	100.0	-12.5
OPHTHALMOLOGY	25	8	9	2	5	15	19	19	-4.5	.0	-3.8
OTORHINOLARYNGOLOGY	50	64	56	45	24	18	15	16	-18.2	6.7	-15.0
PEDIATRICS	156	143	112	94	119	127	145	144	-1.2	-.7	-1.1
PHARMACEUTICAL SCIENCES	1,480	1,422	1,580	1,560	1,607	1,645	1,677	1,696	2.1	1.1	2.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	3,020	3,273	3,096	3,834	4,291	4,513	4,436	4,023	6.6	-9.3	4.2
PSYCHIATRY	122	114	127	117	120	61	57	72	-11.9	26.3	-7.3
PULMONARY DISEASE	7	0	3	10	1	15	9	12	4.3	33.3	8.0
RADIOLOGY	320	270	269	213	220	233	237	211	-4.9	-11.0	-5.8
SPEECH PATHOLOGY/AUDIOLOGY	4,639	4,725	4,644	4,678	4,459	4,785	4,511	4,493	-.5	-.4	-.5
SURGERY	120	116	89	84	60	79	74	90	-7.7	21.6	-4.0
VETERINARY SCIENCES	379	407	435	431	456	382	354	368	-3.1	4.0	-.4
CLINICAL MEDICINE, N.E.C.	245	189	228	179	235	281	236	298	-.6	26.3	2.8
HEALTH RELATED, N.E.C.	1,520	1,635	1,857	2,049	2,272	2,726	2,602	2,251	9.4	-13.5	5.8
PSYCHOLOGY	19,710	21,453	21,239	20,693	20,718	21,572	21,535	21,144	1.5	-1.8	1.0
SOCIAL SCIENCES	49,505	48,557	49,185	48,209	50,423	51,339	51,210	49,039	.6	-4.2	-.1
AGRICULTURAL ECONOMICS	1,879	1,920	1,940	1,974	1,930	2,027	2,014	1,928	1.2	-4.3	.4
ANTHROPOLOGY	4,862	4,892	4,924	4,528	4,464	4,476	4,244	4,027	-2.2	-5.1	-2.7
ECONOMICS (EXCEPT AGRICULTURAL)	8,011	7,802	8,049	8,169	8,139	8,966	9,089	9,151	2.1	.7	1.9
GEOGRAPHY	2,180	2,246	2,116	2,080	1,923	2,096	2,101	2,035	-.6	-3.1	-1.0
HISTORY AND PHILOSOPHY OF SCIENCE	259	270	257	241	234	241	217	223	-2.9	2.8	-2.1
LINGUISTICS	1,973	2,080	1,823	1,804	2,170	2,151	2,167	2,127	1.6	-1.8	1.1
POLITICAL SCIENCE	12,118	11,346	11,614	11,353	12,456	12,041	12,691	12,086	.8	-4.8	*
SOCIOLOGY	6,264	6,264	5,946	5,140	5,416	5,547	5,314	4,820	-2.7	-9.3	-3.7
SOCIOLOGY/ANTHROPOLOGY	940	624	678	599	578	554	509	602	-9.7	18.3	-6.2
SOCIAL SCIENCES, N.E.C.	11,019	11,113	11,838	12,321	13,113	13,240	12,864	12,040	2.6	-6.4	1.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	154,024	156,251	157,768	155,983	160,065	165,198	167,244	170,523	1.4	2.0	1.5
ENGINEERING	25,480	25,056	25,413	25,332	26,911	29,104	31,151	34,077	3.4	9.4	4.2
AEROSPACE	838	819	813	772	780	921	1,053	1,091	3.9	3.6	3.8
AGRICULTURAL	466	497	584	578	508	593	628	686	5.1	9.2	5.7
BIOMEDICAL	412	411	392	394	435	435	493	529	3.0	7.3	3.6
CHEMICAL	2,444	2,484	2,623	2,630	2,841	3,079	3,382	3,822	5.6	13.0	6.6
CIVIL	5,265	5,023	5,489	5,613	5,895	6,178	6,395	6,942	3.3	8.6	4.0
ELECTRICAL	5,577	5,473	5,628	5,449	5,685	6,405	6,757	7,396	3.3	9.5	4.1
ENGINEERING SCIENCE	659	681	655	679	573	661	728	798	1.7	9.6	2.8
INDUSTRIAL	2,379	2,190	2,079	2,002	2,495	2,541	2,604	2,761	1.5	6.0	2.2
MECHANICAL	3,576	3,455	3,285	3,386	3,676	3,958	4,492	5,108	3.9	13.7	5.2
METALLURGICAL/MATERIALS	1,091	1,159	1,214	1,232	1,342	1,361	1,502	1,523	5.5	1.4	4.9
MINING	262	312	277	245	214	240	293	287	1.9	-2.0	1.3
NUCLEAR	963	955	900	866	827	816	809	815	-2.9	.7	-2.4
PETROLEUM	139	194	183	200	187	224	231	279	8.8	20.8	10.5
ENGINEERING, N.E.C.	1,409	1,403	1,291	1,286	1,353	1,692	1,784	2,040	4.0	14.3	5.4
PHYSICAL SCIENCES	15,058	15,292	15,393	15,205	15,444	15,798	16,053	16,756	1.1	4.4	1.5
ASTRONOMY	407	399	381	374	385	390	362	382	-3.1	5.5	-1.9
CHEMISTRY	8,753	9,070	9,192	9,257	9,379	9,623	9,686	10,165	1.7	4.9	2.2
PHYSICS	5,786	5,751	5,743	5,512	5,628	5,731	5,958	6,156	.5	3.3	.9
PHYSICAL SCIENCES, N.E.C.	82	72	77	62	52	54	47	53	-8.9	12.8	-6.0
ENVIRONMENTAL SCIENCES	7,344	7,865	8,179	8,095	8,410	8,405	8,568	8,869	2.6	3.5	2.7
ATMOSPHERIC SCIENCES	768	767	755	741	730	732	685	714	-1.9	4.2	-1.0
GEOSCIENCES	4,318	4,675	4,875	4,934	5,174	5,346	5,413	5,794	3.8	7.0	4.3
OCEANOGRAPHY	1,212	1,271	1,304	1,253	1,310	1,302	1,367	1,295	2.0	-5.3	1.0
ENVIRONMENTAL SCIENCES, N.E.C.	1,046	1,152	1,245	1,167	1,196	1,025	1,103	1,066	.9	-3.4	.3
MATHEMATICAL/COMPUTER SCIENCES	10,780	11,041	10,582	10,438	10,716	11,378	11,824	13,320	1.6	12.7	3.1
COMPUTER SCIENCE	3,275	3,557	3,410	3,604	4,013	4,607	4,855	5,917	6.8	21.9	8.8
MATHEMATICS AND APPLIED MATHEMATICS	6,353	6,272	5,949	5,663	5,517	5,516	5,670	6,059	-1.9	6.9	-.7
STATISTICS	1,152	1,212	1,223	1,171	1,186	1,255	1,299	1,344	2.0	3.5	2.2
LIFE SCIENCES	47,507	49,363	51,041	51,215	51,764	52,700	52,171	51,228	1.6	-1.8	1.1
AGRICULTURAL SCIENCES	8,272	8,810	9,066	8,998	9,082	9,376	9,417	9,422	2.2	.1	1.9
BIOLOGICAL SCIENCES	26,443	26,791	27,247	26,867	26,687	26,742	26,487	26,090	*	-1.5	-.2
ANATOMY	702	750	747	707	731	657	644	603	-1.4	-6.4	-2.1
BIOCHEMISTRY	2,431	2,497	2,549	2,550	2,479	2,510	2,523	2,580	.6	2.3	.5
BIOLOGY	5,972	6,083	5,991	5,697	5,618	5,570	5,357	5,140	-1.8	-4.1	-2.1
BIOMETRY/EPIDEMIOLOGY	426	383	491	561	534	612	580	485	5.3	-16.4	1.9
BIOPHYSICS	384	343	326	309	294	279	267	235	-5.9	-12.0	-6.8
BOTANY	2,806	3,046	3,166	3,065	2,955	2,876	2,759	2,866	-.3	3.9	.3
CELL BIOLOGY	344	350	398	426	455	495	504	557	6.6	10.5	7.1
ECOLOGY	668	723	869	910	767	887	862	839	4.3	-2.7	3.3
ENTOMOLOGY/PARASITOLOGY	1,309	1,353	1,332	1,411	1,399	1,470	1,394	1,291	1.1	-7.4	-.2
GENETICS	583	610	699	684	649	630	615	650	.9	5.7	1.6
MICROBIOLOGY	2,811	2,771	2,801	2,648	2,650	2,763	2,658	2,713	-.9	2.1	-.5
NUTRITION	1,844	1,941	2,128	2,176	2,281	2,242	2,418	2,349	4.6	-2.9	3.5
PATHOLOGY	623	619	624	674	713	701	714	686	2.3	-3.9	1.4
PHARMACOLOGY	1,059	1,086	1,107	1,158	1,274	1,260	1,298	1,324	3.4	2.0	3.2
PHYSIOLOGY	1,520	1,415	1,372	1,309	1,270	1,280	1,318	1,226	-2.3	-7.0	-3.0
ZOOLOGY	2,845	2,655	2,429	2,345	2,212	2,076	2,103	2,009	-4.9	-4.5	-4.8
BIOSCIENCES, N.E.C.	116	166	218	237	406	433	473	537	26.4	13.5	24.5
HEALTH SCIENCES	12,792	13,762	14,728	15,350	15,995	16,583	16,267	15,716	4.1	-3.4	3.0
ANESTHESIOLOGY	14	5	2	3	14	13	15	20	1.2	33.3	5.2
CANCER/ONCOLOGY	55	42	49	49	45	44	44	55	-3.7	25.0	.0
CARDIOLOGY	20	0	2	2	1	0	0	0	-100.0	**	-100.0
DENTISTRY	499	564	620	604	614	626	591	567	2.9	-4.1	1.8
ENDOCRINOLOGY	41	32	31	30	43	48	46	50	1.9	8.7	2.9
GASTROENTEROLOGY	11	8	8	5	0	0	3	1	-19.5	-66.7	-29.0
HEMATOLOGY	3	3	1	3	10	7	6	6	12.2	.0	10.4
NEUROLOGY	171	167	190	210	208	198	167	171	-.4	2.4	.0
NURSING	2,489	3,092	3,802	4,132	4,410	4,504	4,682	4,625	11.1	-1.2	9.3
OBSTETRICS/GYNECOLOGY	43	37	17	16	20	1	0	7	-100.0	**	-22.8
OPHTHALMOLOGY	6	3	7	1	3	10	10	15	8.9	50.0	14.0
OTORHINOLARYNGOLOGY	36	48	31	30	22	12	11	13	-17.9	18.2	-13.5
PEDIATRICS	140	130	93	76	66	81	91	97	-6.9	6.6	-5.1
PHARMACEUTICAL SCIENCES	1,255	1,284	1,383	1,364	1,374	1,420	1,457	1,448	2.5	-.6	2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,231	2,475	2,335	2,632	3,082	3,193	3,145	2,677	5.9	-14.9	2.6
PSYCHIATRY	29	26	59	63	78	58	57	59	11.9	3.5	10.7
PULMONARY DISEASE	5	0	3	9	1	7	7	10	5.8	42.9	10.4
RADIOLOGY	209	167	174	150	162	168	145	134	-5.9	-7.6	-6.2
SPEECH PATHOLOGY/AUDIOLOGY	3,858	4,014	4,004	4,032	3,706	3,932	3,679	3,753	-.8	2.0	-.4
SURGERY	100	86	67	71	48	59	40	65	-14.2	62.5	-6.0
VETERINARY SCIENCES	333	355	376	373	397	331	306	316	-1.4	3.3	-.7
CLINICAL MEDICINE, N.E.C.	214	163	211	164	209	211	198	200	-1.3	1.0	-1.0
HEALTH RELATED, N.E.C.	1,030	1,061	1,263	1,331	1,482	1,660	1,567	1,427	7.2	-8.9	4.8
PSYCHOLOGY	13,428	13,963	13,540	12,939	12,805	13,081	13,034	12,978	-.5	-.4	-.5
SOCIAL SCIENCES	34,427	33,671	33,620	32,759	34,015	34,732	34,443	33,295	*	-3.3	-.5
AGRICULTURAL ECONOMICS	1,790	1,840	1,861	1,889	1,830	1,900	1,914	1,836	1.1	-4.1	.4
ANTHROPOLOGY	3,450	3,585	3,586	3,278	3,312	3,232	3,025	2,806	-2.2	-7.2	-2.9
ECONOMICS (EXCEPT AGRICULTURAL)	5,261	5,081	5,127	5,132	5,088	5,590	5,729	5,918	1.4	3.3	1.7
GEOGRAPHY	1,917	1,996	1,889	1,838	1,727	1,853	1,858	1,837	-.5	-1.1	-.6
HISTORY AND PHILOSOPHY OF SCIENCE	127	135	135	132	131	139	122	122	-.7	.0	-.6
LINGUISTICS	1,265	1,325	1,276	1,255	1,369	1,404	1,425	1,495	2.0	4.9	2.4
POLITICAL SCIENCE	7,125	6,565	6,516	6,218	6,779	6,707	7,056	6,827	-.2	-3.2	-.6
SOCIOLOGY	4,393	4,354	4,168	3,679	3,852	3,925	3,661	3,374	-3.0	-7.8	-3.7
SOCIOLOGY/ANTHROPOLOGY	757	460	514	459	456	445	388	424	-10.5	9.3	-7.9
SOCIAL SCIENCES, N.E.C.	8,342	8,330	8,548	8,879	9,471	9,537	9,265	8,656	1.8	-6.6	.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	56,297	57,838	59,685	60,625	63,344	65,488	67,127	67,153	3.0	*	2.6
ENGINEERING	11,603	11,378	11,595	12,058	12,789	13,196	14,052	15,029	3.2	7.0	3.8
AEROSPACE	387	334	365	363	371	403	427	428	1.7	.2	1.4
AGRICULTURAL	35	32	36	40	37	38	44	53	3.9	20.5	6.1
BIOMEDICAL	384	344	323	348	392	353	360	379	-1.1	5.3	-.2
CHEMICAL	1,038	1,173	1,220	1,268	1,326	1,361	1,554	1,724	7.0	10.9	7.5
CIVIL	1,961	1,676	1,718	1,844	1,902	1,990	2,500	2,571	4.1	2.8	3.9
ELECTRICAL	2,609	2,590	2,708	2,885	3,166	3,307	3,437	3,897	4.7	13.4	5.9
ENGINEERING SCIENCE	494	500	530	581	556	558	546	541	1.7	-.9	1.3
INDUSTRIAL	1,664	1,417	1,345	1,323	1,349	1,197	1,016	1,055	-7.9	3.8	-6.3
MECHANICAL	1,278	1,467	1,551	1,541	1,747	1,859	1,940	2,116	7.2	9.1	7.5
METALLURGICAL/MATERIALS	689	694	727	729	778	875	934	930	5.2	-.4	4.4
MINING	77	88	81	82	78	78	79	64	.4	-19.0	-2.6
NUCLEAR	292	267	254	261	248	227	223	227	-4.4	1.8	-3.5
PETROLEUM	89	129	118	128	149	146	159	191	10.2	20.1	11.5
ENGINEERING, N.E.C.	606	667	619	665	690	804	833	853	5.4	2.4	5.0
PHYSICAL SCIENCES	6,216	6,290	6,348	6,280	6,337	6,461	6,550	6,609	.9	.9	.9
ASTRONOMY	222	222	218	207	215	203	203	208	-1.5	2.5	-.9
CHEMISTRY	3,261	3,319	3,385	3,423	3,463	3,458	3,482	3,602	1.1	3.4	1.4
PHYSICS	2,720	2,749	2,745	2,650	2,659	2,788	2,853	2,799	.8	-1.9	.4
PHYSICAL SCIENCES, N.E.C.	13	0	0	0	0	12	12	0	-1.3	-100.0	-100.0
ENVIRONMENTAL SCIENCES	1,645	1,663	1,668	1,735	1,627	1,707	1,764	1,878	1.2	6.5	1.9
ATMOSPHERIC SCIENCES	64	55	52	45	46	45	81	91	4.0	12.3	5.2
GEOSCIENCES	1,318	1,354	1,346	1,353	1,309	1,328	1,347	1,425	.4	5.8	1.1
OCEANOGRAPHY	202	197	205	238	178	228	222	256	1.6	15.3	3.4
ENVIRONMENTAL SCIENCES, N.E.C.	61	57	65	99	94	106	114	106	11.0	-7.0	8.2
MATHEMATICAL/COMPUTER SCIENCES	3,345	3,484	3,393	3,252	3,461	3,875	4,312	4,861	4.3	12.7	5.5
COMPUTER SCIENCE	811	811	881	899	1,147	1,400	1,734	2,251	13.5	29.8	15.7
MATHEMATICS AND APPLIED MATHEMATICS	2,266	2,411	2,269	2,133	2,094	2,225	2,340	2,392	.5	2.2	.8
STATISTICS	268	262	243	220	220	250	238	218	-2.0	-8.4	-2.9
LIFE SCIENCES	12,128	12,647	13,417	14,096	14,809	15,151	15,181	14,866	3.8	-2.1	3.0
AGRICULTURAL SCIENCES	240	243	249	261	301	284	279	253	2.5	-9.3	.8
BIOLOGICAL SCIENCES	8,352	8,647	8,774	8,897	8,954	8,879	8,772	9,122	.8	4.0	1.3
ANATOMY	317	323	334	338	343	364	350	366	1.7	4.6	2.1
BIOCHEMISTRY	1,017	1,009	1,044	1,136	1,133	1,132	1,157	1,222	2.2	5.6	2.7
BIOLOGY	2,971	3,034	2,951	2,806	2,769	2,649	2,499	2,592	-2.8	3.7	-1.9
BIOMETRY/EPIDEMIOLOGY	341	380	408	420	437	437	423	438	3.7	3.5	3.6
BIOPHYSICS	222	230	227	204	204	197	190	190	-2.6	.0	-2.2
BOTANY	214	211	219	236	243	255	247	252	2.4	2.0	2.4
CELL BIOLOGY	276	222	232	254	268	321	377	472	5.3	25.2	8.0
ECOLOGY	60	66	58	60	52	50	55	48	-1.4	-12.7	-3.1
ENTOMOLOGY/PARASITOLOGY	73	63	57	69	64	55	58	49	-3.8	-15.5	-5.5
GENETICS	171	151	182	167	163	191	196	210	2.3	7.1	3.0
MICROBIOLOGY	745	823	868	872	864	840	844	928	2.1	10.0	3.2
NUTRITION	483	547	618	655	664	661	660	671	5.3	1.7	4.8
PATHOLOGY	296	350	326	329	343	336	335	329	2.1	-1.8	1.5
PHARMACOLOGY	442	503	558	596	577	624	612	621	5.6	1.5	5.0
PHYSIOLOGY	526	545	528	561	617	570	601	582	2.2	-3.2	1.5
ZOOLOGY	186	177	160	185	193	178	144	128	-4.2	-11.1	-5.2
BIOSCIENCES, N.E.C.	12	13	4	9	20	19	24	24	12.2	.0	10.4
HEALTH SCIENCES	3,536	3,757	4,394	4,938	5,554	5,988	6,130	5,491	9.6	-10.4	6.5
ANESTHESIOLOGY	41	0	1	4	4	0	1	1	-46.1	.0	-41.2
CANCER/ONCOLOGY	0	0	2	0	0	0	0	0	**	**	**
CARDIOLOGY	2	0	1	1	2	17	3	3	7.0	.0	6.0
DENTISTRY	415	324	306	329	444	363	280	241	-6.3	-13.9	-7.5
ENDOCRINOLOGY	1	1	0	3	0	0	0	1	-100.0	**	.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	6	**	**	**
HEMATOLOGY	0	0	6	6	4	1	3	0	**	-100.0	**
NEUROLOGY	145	124	117	123	117	129	121	140	-3.0	15.7	-.5
NURSING	287	739	1,454	1,465	1,731	1,736	2,053	1,607	38.8	-21.7	27.9
OBSTETRICS/GYNECOLOGY	8	15	8	7	13	4	10	13	3.8	30.0	7.2
OPHTHALMOLOGY	19	5	2	1	2	5	9	4	-11.7	-55.6	-20.0
OTORHINOLARYNGOLOGY	14	16	25	15	2	6	4	3	-18.8	-25.0	-19.8
PEDIATRICS	16	13	19	18	53	46	54	47	22.5	-13.0	16.6
PHARMACEUTICAL SCIENCES	225	138	197	196	233	225	220	248	-.4	12.7	1.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	789	798	761	1,202	1,209	1,320	1,291	1,346	8.6	4.3	7.9
PSYCHIATRY	93	88	68	54	42	3	0	13	-100.0	**	-24.5
PULMONARY DISEASE	2	0	0	1	0	8	2	2	.0	.0	.0
RADIOLOGY	111	103	95	63	58	65	92	77	-3.1	-16.3	-5.1
SPEECH PATHOLOGY/AUDIOLOGY	781	711	640	646	753	853	832	740	1.1	-11.1	-.8
SURGERY	20	30	22	13	12	20	34	25	9.2	-26.5	3.2
VETERINARY SCIENCES	46	52	59	58	59	51	48	52	.7	8.3	1.8
CLINICAL MEDICINE, N.E.C.	31	26	17	15	26	70	38	98	3.5	157.9	17.9
HEALTH RELATED, N.E.C.	490	574	594	718	790	1,066	1,035	824	13.3	-20.4	7.7
PSYCHOLOGY	6,282	7,490	7,699	7,754	7,913	8,491	8,501	8,166	5.2	-3.9	3.8
SOCIAL SCIENCES	15,078	14,886	15,565	15,450	16,408	16,607	16,767	15,744	1.8	-6.1	.6
AGRICULTURAL ECONOMICS	89	80	79	85	100	127	100	92	2.0	-8.0	.5
ANTHROPOLOGY	1,412	1,307	1,338	1,250	1,152	1,244	1,219	1,221	-2.4	.2	-2.1
ECONOMICS (EXCEPT AGRICULTURAL)	2,750	2,721	2,922	3,037	3,051	3,376	3,360	3,233	3.4	-3.8	2.3
GEOGRAPHY	263	250	227	242	196	243	243	198	-1.3	-18.5	-4.0
HISTORY AND PHILOSOPHY OF SCIENCE	132	135	122	109	103	102	95	101	-5.3	6.3	-3.8
LINGUISTICS	708	755	547	549	801	747	742	632	.8	-14.8	-1.6
POLITICAL SCIENCE	4,993	4,781	5,098	5,135	5,677	5,334	5,635	5,259	2.0	-6.7	.7
SOCIOLOGY	1,871	1,910	1,778	1,461	1,564	1,622	1,653	1,446	-2.0	-12.5	-3.6
SOCIOLOGY/ANTHROPOLOGY	183	164	164	140	122	109	121	178	-6.7	47.1	-.4
SOCIAL SCIENCES, N.E.C.	2,677	2,783	3,290	3,442	3,642	3,703	3,599	3,384	5.1	-6.0	3.4

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. — FIRST-YEAR FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	79,150	78,121	80,222	74,352	73,033	77,428	76,444	76,782	-.6	0.4	-.4
ENGINEERING	16,439	15,823	15,863	14,618	14,697	15,897	16,446	17,796	*	8.2	1.1
AEROSPACE	475	412	413	408	415	524	563	531	2.9	-5.7	1.6
AGRICULTURAL	222	228	257	216	200	216	226	248	.3	9.7	1.6
BIOMEDICAL	273	288	248	266	250	232	263	342	-.6	30.0	3.3
CHEMICAL	1,384	1,517	1,622	1,441	1,429	1,477	1,657	1,839	3.0	11.0	4.1
CIVIL	3,565	3,336	3,559	3,168	3,101	3,363	3,511	3,567	-.3	1.6	*
ELECTRICAL	3,632	3,427	3,525	3,299	3,562	3,790	3,963	4,400	1.5	11.0	2.8
ENGINEERING SCIENCE	409	442	418	433	305	352	355	393	-2.3	10.7	-.6
INDUSTRIAL	2,090	1,771	1,728	1,538	1,408	1,433	1,192	1,378	-8.9	15.6	-5.8
MECHANICAL	2,137	2,137	2,104	1,954	2,119	2,339	2,488	2,713	2.6	9.0	3.5
METALLURGICAL/MATERIALS	565	556	584	579	658	710	615	644	1.4	4.7	1.9
MINING	159	186	129	94	98	113	120	107	-4.6	-10.8	-5.5
NUCLEAR	557	411	382	359	276	328	326	331	-8.5	1.5	-7.2
PETROLEUM	95	171	114	110	115	121	113	171	2.9	51.3	8.8
ENGINEERING, N.E.C.	876	941	780	753	761	899	1,054	1,132	3.1	7.4	3.7
PHYSICAL SCIENCES	5,956	6,010	6,148	5,682	5,441	5,735	5,815	5,906	-.4	1.6	-.1
ASTRONOMY	140	131	147	123	130	148	127	146	-1.6	15.0	.6
CHEMISTRY	3,565	3,681	3,740	3,512	3,272	3,394	3,395	3,533	-.8	4.1	-.1
PHYSICS	2,221	2,177	2,239	2,024	2,024	2,178	2,267	2,212	.3	-2.4	-.1
PHYSICAL SCIENCES, N.E.C.	30	21	22	23	15	15	26	15	-2.4	-42.3	-9.4
ENVIRONMENTAL SCIENCES	3,255	3,348	3,426	3,224	3,117	3,298	3,177	3,394	-.4	6.8	.6
ATMOSPHERIC SCIENCES	307	268	292	267	242	217	249	238	-3.4	-4.4	-3.6
GEOSCIENCES	2,038	2,104	2,142	1,984	2,034	2,160	2,162	2,353	1.0	8.8	2.1
OCEANOGRAPHY	379	397	395	401	397	398	375	378	-.2	.8	*
ENVIRONMENTAL SCIENCES, N.E.C.	531	579	597	572	444	523	391	425	-5.0	8.7	-3.1
MATHEMATICAL/COMPUTER SCIENCES	5,412	5,185	5,259	4,826	4,798	5,518	5,720	6,338	.9	10.8	2.3
COMPUTER SCIENCE	1,819	1,669	1,797	1,749	1,973	2,324	2,557	3,003	5.8	17.4	7.4
MATHEMATICS AND APPLIED MATHEMATICS	3,075	3,033	2,994	2,661	2,379	2,713	2,745	2,873	-1.9	4.7	-1.0
STATISTICS	518	483	468	416	446	481	418	462	-3.5	10.5	-1.6
LIFE SCIENCES	23,329	23,607	24,353	22,829	22,059	23,023	21,756	21,118	-1.2	-2.9	-1.4
AGRICULTURAL SCIENCES	3,558	3,571	3,538	3,048	2,877	2,980	2,829	2,825	-3.7	-.1	-3.2
BIOLOGICAL SCIENCES	11,396	11,114	10,939	10,027	9,394	9,472	9,097	8,961	-3.7	-1.5	-3.4
ANATOMY	305	303	288	242	233	228	230	226	-4.6	-1.7	-4.2
BIOCHEMISTRY	973	928	924	870	815	804	902	930	-1.3	3.1	-.6
BIOLOGY	3,204	3,192	3,045	2,515	2,458	2,357	2,100	2,105	-6.8	.2	-5.8
BIOMETRY/EPIDEMIOLOGY	319	307	324	377	377	378	333	272	.7	-18.3	-2.3
BIOPHYSICS	139	132	120	104	78	84	87	104	-7.5	19.5	-4.1
BOTANY	950	1,084	1,020	892	773	857	751	780	-3.8	3.9	-2.8
CELL BIOLOGY	191	142	169	158	155	157	177	202	-1.3	14.1	.8
ECOLOGY	219	189	208	241	202	219	200	179	-1.5	-10.5	-2.8
ENTOMOLOGY/PARASITOLOGY	489	415	404	385	365	376	343	283	-5.7	-17.5	-7.5
GENETICS	221	217	250	213	171	204	199	216	-1.7	8.5	-.3
MICROBIOLOGY	1,116	1,081	1,070	910	875	937	887	919	-3.8	3.6	-2.7
NUTRITION	967	967	1,127	1,071	1,041	973	913	927	-1.0	1.5	-.6
PATHOLOGY	305	314	282	291	286	281	279	244	-1.5	-12.5	-3.1
PHARMACOLOGY	461	452	430	421	428	449	462	433	*	-6.3	-.9
PHYSIOLOGY	629	541	532	523	493	471	586	519	-1.2	-11.4	-2.7
ZOOLOGY	870	809	686	728	538	572	527	476	-8.0	-9.7	-8.3
BIOSCIENCES, N.E.C.	38	41	60	86	106	125	121	146	21.3	20.7	21.2
HEALTH SCIENCES	8,375	8,922	9,876	9,754	9,788	10,571	9,830	9,332	2.7	-5.1	1.6
ANESTHESIOLOGY	19	1	3	4	6	5	5	7	-19.9	40.0	-13.3
CANCER/ONCOLOGY	15	11	13	13	6	6	0	11	-100.0	**	-4.3
CARDIOLOGY	12	0	1	0	1	5	0	0	-100.0	**	-100.0
DENTISTRY	394	389	392	416	409	410	343	297	-2.3	-13.4	-4.0
ENDOCPINOLOGY	8	13	9	8	9	17	8	10	.0	25.0	3.2
GASTROENTEROLOGY	6	4	4	0	0	0	0	4	-100.0	**	-5.6
HEMATOLOGY	3	1	2	3	7	4	2	3	-6.5	50.0	.0
NEUROLOGY	72	58	68	70	57	54	52	57	-5.3	9.6	-3.3
NURSING	1,594	2,362	3,154	3,012	3,299	3,423	3,290	2,919	12.8	-11.3	9.0
OBSTETRICS/GYNECOLOGY	21	22	11	8	8	2	5	9	-21.3	80.0	-11.4
OPHTHALMOLOGY	6	2	1	1	2	2	5	2	-3.0	-60.0	-14.5
OTORHINOLARYNGOLOGY	12	22	21	13	1	1	4	8	-16.7	100.0	-5.6
PEDIATRICS	74	100	67	55	68	70	32	58	-13.0	81.3	-3.4
PHARMACEUTICAL SCIENCES	521	469	553	481	465	486	494	448	-.9	-9.3	-2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,798	1,918	1,793	2,131	2,265	2,448	2,251	2,192	3.8	-2.6	2.9
PSYCHIATRY	43	40	30	26	22	18	5	12	-30.1	140.0	-16.7
PULMONARY DISEASE	3	0	2	4	0	4	3	6	.0	100.0	10.4
RADIOLOGY	118	83	79	49	55	64	52	67	-12.8	28.8	-7.8
SPEECH PATHOLOGY/AUDIOLOGY	2,558	2,353	2,387	2,126	1,885	2,076	1,994	1,957	-4.1	-1.9	-3.8
SURGERY	34	37	23	15	15	14	19	36	-9.2	89.5	.8
VETERINARY SCIENCES	139	164	159	139	145	113	93	97	-6.5	4.3	-5.0
CLINICAL MEDICINE, N.E.C.	102	78	117	72	77	88	70	89	-6.1	27.1	-1.9
HEALTH RELATED, N.E.C.	823	795	987	1,108	986	1,261	1,103	1,043	5.0	-5.4	3.4
PSYCHOLOGY	5,737	5,966	6,053	5,565	5,461	5,699	5,571	5,502	-.5	-1.2	-.6
SOCIAL SCIENCES	19,022	18,182	19,120	17,608	17,460	18,258	17,959	16,728	-1.0	-6.9	-1.8
AGRICULTURAL ECONOMICS	695	706	749	678	683	678	667	603	-.7	-9.6	-2.0
ANTHROPOLOGY	1,276	1,335	1,326	1,141	1,110	966	928	896	-5.2	-3.4	-4.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,091	2,935	2,998	2,904	2,650	2,873	2,927	2,925	-.9	-.1	-.8
GEOGRAPHY	828	856	815	693	673	700	723	662	-2.2	-8.4	-3.1
HISTORY AND PHILOSOPHY OF SCIENCE	62	73	60	53	43	62	26	53	-13.5	103.8	-2.2
LINGUISTICS	737	774	599	543	655	676	741	648	.1	-12.6	-1.8
POLITICAL SCIENCE	4,957	4,517	5,013	4,312	4,903	4,996	4,845	4,619	-.4	-4.7	-1.0
SOCIOLOGY	1,852	1,833	1,780	1,467	1,391	1,422	1,318	1,203	-5.5	-8.7	-6.0
SOCIOLOGY/ANTHROPOLOGY	398	243	258	222	226	200	154	200	-14.6	29.9	-9.4
SOCIAL SCIENCES, N.E.C.	5,126	4,910	5,522	5,595	5,126	5,685	5,630	4,919	1.6	-12.6	-.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS BEYOND FIRST YEAR IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	131,171	135,968	137,231	142,256	150,376	153,258	157,927	160,894	3.1	1.9	3.0
ENGINEERING	20,644	20,611	21,145	22,772	25,003	26,403	28,757	31,310	5.7	8.9	6.1
AEROSPACE	750	741	765	727	736	800	917	988	3.4	7.7	4.0
AGRICULTURAL	279	301	363	402	445	415	446	491	8.1	10.1	8.4
BIOMEDICAL	523	467	467	476	577	556	590	566	2.0	-4.1	1.1
CHEMICAL	2,098	2,140	2,221	2,457	2,738	2,963	3,279	3,707	7.7	13.1	8.5
CIVIL	3,661	3,363	3,648	4,289	4,696	4,805	5,384	5,946	6.6	10.4	7.2
ELECTRICAL	4,554	4,636	4,811	5,035	5,269	5,922	6,231	6,893	5.4	10.6	6.1
ENGINEERING SCIENCE	744	739	767	827	824	867	919	946	3.6	2.9	3.5
INDUSTRIAL	1,953	1,836	1,696	1,787	2,436	2,305	2,428	2,438	3.7	.4	3.2
MECHANICAL	2,717	2,785	2,732	2,973	3,304	3,478	3,944	4,511	6.4	14.4	7.5
METALLURGICAL/MATERIALS	1,215	1,297	1,357	1,382	1,462	1,526	1,821	1,809	7.0	-.7	5.9
MINING	180	214	229	233	194	205	252	244	5.8	-3.2	4.4
NUCLEAR	698	811	772	768	799	715	706	711	.2	.7	.3
PETROLEUM	133	152	187	218	221	249	277	299	13.0	7.9	12.3
ENGINEERING, N.E.C.	1,139	1,129	1,130	1,198	1,282	1,597	1,563	1,761	5.4	12.7	6.4
PHYSICAL SCIENCES	15,318	15,572	15,593	15,803	16,340	16,524	16,788	17,459	1.5	4.0	1.9
ASTRONOMY	519	490	452	458	470	445	438	444	-2.8	1.4	-2.2
CHEMISTRY	8,449	8,708	8,837	9,168	9,570	9,687	9,773	10,234	2.5	4.7	2.8
PHYSICS	6,285	6,323	6,249	6,138	6,263	6,341	6,544	6,743	.7	3.0	1.0
PHYSICAL SCIENCES, N.E.C.	65	51	55	39	37	51	33	38	-10.7	15.2	-7.4
ENVIRONMENTAL SCIENCES	5,734	6,180	6,421	6,506	6,920	6,814	7,155	7,353	3.8	2.8	3.6
ATMOSPHERIC SCIENCES	525	554	515	519	534	560	517	567	-.3	9.7	1.1
GEOSCIENCES	3,598	3,925	4,079	4,303	4,449	4,514	4,598	4,866	4.2	5.8	4.4
OCEANOGRAPHY	1,035	1,071	1,114	1,090	1,091	1,132	1,214	1,173	2.7	-3.4	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	576	630	713	694	846	608	826	747	6.2	-9.6	3.8
MATHEMATICAL/COMPUTER SCIENCES	8,713	9,340	8,716	8,864	9,379	9,735	10,416	11,843	3.0	13.7	4.5
COMPUTER SCIENCE	2,267	2,699	2,494	2,754	3,187	3,683	4,032	5,165	10.1	28.1	12.5
MATHEMATICS AND APPLIED MATHEMATICS	5,544	5,650	5,224	5,135	5,232	5,028	5,265	5,578	-.9	5.9	.1
STATISTICS	902	991	998	975	960	1,024	1,119	1,100	3.7	-1.7	2.9
LIFE SCIENCES	36,306	38,403	40,105	42,482	44,514	44,828	45,596	44,976	3.9	-1.4	3.1
AGRICULTURAL SCIENCES	4,954	5,482	5,777	6,211	6,506	6,680	6,867	6,850	5.6	-.2	4.7
BIOLOGICAL SCIENCES	23,399	24,324	25,082	25,737	26,247	26,148	26,162	26,251	1.9	.3	1.7
ANATOMY	714	770	793	803	841	793	764	743	1.1	-2.7	.6
BIOCHEMISTRY	2,475	2,578	2,669	2,816	2,797	2,838	2,778	2,872	1.9	3.4	2.1
BIOLOGY	5,739	5,925	5,897	5,988	5,929	5,862	5,756	5,627	*	-2.2	-.3
BIOMETRY/EPIDEMIOLOGY	448	456	575	604	594	671	670	651	6.9	-2.8	5.5
BIOPHYSICS	467	441	433	409	420	392	370	321	-3.8	-13.2	-5.2
BOTANY	2,070	2,173	2,365	2,409	2,425	2,274	2,255	2,338	1.4	3.7	1.8
CELL BIOLOGY	429	430	461	522	568	659	704	827	8.6	17.5	9.8
ECOLOGY	509	600	719	729	617	718	717	708	5.9	-1.3	4.8
ENTOMOLOGY/PARASITOLOGY	893	1,001	985	1,095	1,098	1,149	1,109	1,057	3.7	-4.7	2.4
GENETICS	533	544	631	638	641	617	612	644	2.3	5.2	2.7
MICROBIOLOGY	2,440	2,513	2,599	2,610	2,639	2,666	2,615	2,722	1.2	4.1	1.6
NUTRITION	1,360	1,521	1,619	1,760	1,904	1,930	2,165	2,093	8.1	-3.3	6.4
PATHOLOGY	614	655	668	712	770	756	770	771	3.8	.1	3.3
PHARMACOLOGY	1,040	1,137	1,235	1,333	1,423	1,435	1,448	1,512	5.7	4.4	5.5
PHYSIOLOGY	1,417	1,419	1,368	1,347	1,394	1,379	1,333	1,289	-1.0	-3.3	-1.3
ZOOLOGY	2,161	2,023	1,903	1,802	1,867	1,682	1,720	1,661	-3.7	-3.4	-3.7
BIOSCIENCES, N.E.C.	90	138	162	160	320	327	376	415	26.9	10.4	24.4
HEALTH SCIENCES	7,953	8,597	9,246	10,534	11,761	12,000	12,567	11,875	7.9	-5.5	5.9
ANESTHESIOLOGY	36	4	0	3	12	8	11	14	-17.9	27.3	-12.6
CANCER/ONCOLOGY	40	31	38	36	39	38	44	44	1.6	.0	1.4
CARDIOLOGY	10	0	2	3	2	12	3	3	-18.2	.0	-15.8
DENTISTRY	520	499	534	517	649	579	528	511	-.3	-3.2	-.2
ENDOCRINOLOGY	34	20	22	25	34	31	38	41	1.9	7.9	2.7
GASTROENTEROLOGY	5	4	4	5	0	0	3	3	-8.2	.0	-7.0
HEMATOLOGY	0	2	5	6	7	4	7	3	**	-57.1	**
NEUROLOGY	244	233	239	263	268	273	236	254	-.6	7.6	.6
NURSING	1,182	1,469	2,102	2,585	2,842	2,817	3,445	3,313	19.5	-3.8	15.9
OBSTETRICS/GYNECOLOGY	30	30	14	15	25	3	5	11	-25.8	120.0	-13.4
OPHTHALMOLOGY	19	6	8	1	3	13	14	17	-5.0	21.4	-1.6
OTORHINOLARYNGOLOGY	38	42	35	32	23	17	11	8	-18.7	-27.3	-20.0
PEDIATRICS	82	43	45	39	51	57	113	86	5.5	-23.9	.7
PHARMACEUTICAL SCIENCES	959	953	1,027	1,079	1,142	1,159	1,183	1,248	3.6	5.5	3.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,222	1,355	1,303	1,703	2,026	2,065	2,185	1,831	10.2	-16.2	5.9
PSYCHIATRY	79	74	97	91	98	43	52	60	-6.7	15.4	-3.9
PULMONARY DISEASE	4	0	1	6	1	11	6	6	7.0	.0	6.0
RADIOLOGY	202	187	190	164	165	169	185	144	-1.5	-22.2	-4.7
SPEECH PATHOLOGY/AUDIOLOGY	2,081	2,372	2,257	2,552	2,574	2,709	2,517	2,536	3.2	.8	2.9
SURGERY	86	79	66	69	45	65	55	54	-7.2	-1.8	-6.4
VETERINARY SCIENCES	240	243	276	292	311	269	261	271	1.4	3.8	1.8
CLINICAL MEDICINE, N.E.C.	143	111	111	107	158	193	166	209	2.5	25.9	5.6
HEALTH RELATED, N.E.C.	697	840	870	941	1,286	1,465	1,499	1,208	13.6	-19.4	8.2
PSYCHOLOGY	13,973	15,487	15,186	15,128	15,257	15,873	15,964	15,642	2.2	-2.0	1.6
SOCIAL SCIENCES	30,483	30,375	30,065	30,601	32,963	33,081	33,251	32,311	1.5	-2.8	.8
AGRICULTURAL ECONOMICS	1,184	1,214	1,191	1,296	1,247	1,349	1,347	1,325	2.2	-1.6	1.6
ANTHROPOLOGY	3,586	3,557	3,598	3,387	3,354	3,510	3,316	3,131	-1.3	-5.6	-1.9
ECONOMICS (EXCEPT AGRICULTURAL)	4,920	4,867	5,051	5,265	5,489	6,093	6,162	6,226	3.8	1.0	3.4
GEOGRAPHY	1,352	1,390	1,301	1,387	1,250	1,396	1,378	1,373	.3	-.4	.2
HISTORY AND PHILOSOPHY OF SCIENCE	197	197	197	188	191	179	191	170	-.5	-11.0	-2.1
LINGUISTICS	1,236	1,306	1,224	1,261	1,515	1,475	1,426	1,479	2.4	3.7	2.6
POLITICAL SCIENCE	7,161	6,829	6,601	7,041	7,553	7,045	7,846	7,467	1.5	-4.8	.6
SOCIOLOGY	4,412	4,431	4,166	3,673	4,025	4,125	3,996	3,617	-1.6	-9.5	-2.8
SOCIOLOGY/ANTHROPOLOGY	542	381	420	377	352	354	355	402	-6.8	13.2	-4.2
SOCIAL SCIENCES, N.E.C.	5,893	6,203	6,316	6,726	7,987	7,555	7,234	7,121	3.5	-1.6	2.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	158,099	156,257	154,303	152,334	154,736	155,430	157,711	-.3	1.5	*
ENGINEERING	35,213	34,409	34,622	36,180	38,307	40,504	43,793	2.4	8.1	3.2
AEROSPACE	1,205	1,130	1,151	1,115	1,270	1,429	1,446	2.9	1.2	2.6
AGRICULTURAL	492	512	593	617	601	629	689	4.2	9.5	4.9
BIOMEDICAL	749	700	647	716	658	704	734	-1.0	4.3	-.3
CHEMICAL	3,320	3,424	3,568	3,743	3,977	4,408	4,884	4.8	10.8	5.7
CIVIL	6,792	6,249	6,572	6,798	7,109	7,647	8,149	2.0	6.6	2.6
ELECTRICAL	7,958	7,768	7,959	8,401	9,163	9,496	10,489	3.0	10.5	4.0
ENGINEERING SCIENCE	1,085	1,101	1,115	1,045	1,114	1,160	1,208	1.1	4.1	1.5
INDUSTRIAL	3,565	3,206	3,012	3,251	3,072	2,918	3,034	-3.3	4.0	-2.3
MECHANICAL	4,742	4,803	4,699	5,168	5,503	6,087	6,798	4.2	11.7	5.3
METALLURGICAL/MATERIALS	1,681	1,746	1,801	1,908	2,006	2,152	2,148	4.2	-.2	3.6
MINING	328	385	341	268	292	337	318	.5	-5.6	-.4
NUCLEAR	1,208	1,173	1,108	1,000	970	960	969	-3.8	.9	-3.1
PETROLEUM	224	314	290	307	343	356	437	8.0	22.8	10.0
ENGINEERING, N.E.C.	1,864	1,898	1,766	1,843	2,229	2,221	2,490	3.0	12.1	4.2
PHYSICAL SCIENCES	18,593	18,666	18,691	18,453	18,727	18,787	19,158	.2	2.0	.4
ASTRONOMY	589	552	526	528	521	482	496	-3.3	2.9	-2.4
CHEMISTRY	10,011	10,196	10,288	10,318	10,437	10,322	10,580	.5	2.5	.8
PHYSICS	7,929	7,867	7,827	7,574	7,729	7,947	8,045	*	1.2	.2
PHYSICAL SCIENCES, N.E.C.	64	51	50	33	40	36	37	-9.1	2.8	-7.5
ENVIRONMENTAL SCIENCES	7,765	8,012	8,159	7,912	7,826	7,916	8,111	.3	2.5	.6
ATMOSPHERIC SCIENCES	781	755	739	688	679	653	683	-2.9	4.6	-1.9
GEOSCIENCES	4,833	5,057	5,186	5,136	5,179	5,199	5,495	1.2	5.7	1.9
OCEANOGRAPHY	1,231	1,210	1,214	1,148	1,151	1,166	1,130	-.9	-3.1	-1.2
ENVIRONMENTAL SCIENCES, N.E.C.	920	990	1,020	940	817	898	803	-.4	-10.6	-1.9
MATHEMATICAL/COMPUTER SCIENCES	11,413	11,634	11,180	11,285	11,883	12,317	13,656	1.3	10.9	2.6
COMPUTER SCIENCE	3,495	3,690	3,596	4,246	4,769	5,098	6,162	6.5	20.9	8.4
MATHEMATICS AND APPLIED MATHEMATICS	6,827	6,820	6,462	5,959	5,991	6,082	6,379	-1.9	4.9	-1.0
STATISTICS	1,091	1,124	1,122	1,080	1,123	1,137	1,115	.7	-1.9	.3
LIFE SCIENCES	39,888	39,409	39,114	37,608	37,425	36,583	35,266	-1.4	-3.6	-1.7
AGRICULTURAL SCIENCES	7,386	7,633	7,594	7,274	7,363	7,451	7,270	.1	-2.4	-.2
BIOLOGICAL SCIENCES	24,729	24,451	24,191	22,911	22,498	21,965	21,315	-2.0	-3.0	-2.1
ANATOMY	720	745	730	683	636	636	599	-2.0	-5.8	-2.6
BIOCHEMISTRY	2,607	2,574	2,585	2,501	2,473	2,475	2,463	-.9	-.5	-.8
BIOLOGY	6,369	6,260	6,005	5,484	5,200	4,959	4,739	-4.1	-4.4	-4.1
BIOMETRY/EPIDEMIOLOGY	444	404	511	510	545	574	454	4.4	-20.9	.3
BIOPHYSICS	497	469	443	407	373	334	318	-6.4	-4.8	-6.2
BOTANY	2,211	2,300	2,385	2,185	2,099	1,974	1,988	-1.9	.7	-1.5
CELL BIOLOGY	414	379	411	446	524	566	650	5.4	14.8	6.7
ECOLOGY	574	577	681	595	647	625	584	1.4	-6.6	.2
ENTOMOLOGY/PARASITOLOGY	1,195	1,210	1,149	1,166	1,217	1,144	1,021	-.7	-10.8	-2.2
GENETICS	459	439	507	446	450	439	426	-.7	-3.0	-1.1
MICROBIOLOGY	2,403	2,336	2,378	2,118	2,145	2,048	2,072	-2.6	1.2	-2.1
NUTRITION	1,166	1,219	1,180	1,161	1,177	1,170	1,123	.1	-4.0	-.5
PATHOLOGY	652	640	610	699	683	679	635	.7	-6.5	-.4
PHARMACOLOGY	1,152	1,195	1,225	1,322	1,280	1,264	1,270	1.6	.5	1.4
PHYSIOLOGY	1,554	1,484	1,423	1,323	1,296	1,293	1,205	-3.0	-6.8	-3.6
ZOOLOGY	2,225	2,105	1,821	1,614	1,489	1,487	1,435	-6.5	-3.5	-6.1
BIOSCIENCES, N.E.C.	87	115	147	251	264	298	333	22.8	11.7	21.1
HEALTH SCIENCES	7,773	7,325	7,329	7,423	7,565	7,167	6,681	-1.3	-6.8	-2.1
ANE[illegible]Y	34	3	2	7	2	4	8	-30.0	100.0	-18.7
CAN[illegible]	41	33	40	35	34	44	39	1.2	-11.4	-.7
[illegible]	17	0	2	3	16	3	2	-25.1	-33.3	-26.3
D[illegible]	821	783	807	863	788	691	657	-2.8	-4.9	-3.1
E[illegible]	29	22	21	28	24	21	20	-5.2	-4.8	-5.2
GA[illegible]Y	11	8	8	0	0	3	6	-19.5	100.0	-8.3
HEM[illegible]	1	1	3	7	2	2	1	12.2	-50.0	.0
NEU[illegible]	242	205	214	215	220	197	207	-3.4	5.1	-2.2
NURSING	93	148	236	336	287	330	349	23.5	5.8	20.8
OBSTETRICS/GYNECOLOGY	37	38	16	24	4	4	2	-31.0	100.0	-19.7
OPHTHALMOLOGY	22	6	5	3	8	15	16	-6.2	6.7	-4.4
OTORHINOLARYNGOLOGY	44	54	35	22	16	11	13	-20.6	18.2	-16.0
PEDIATRICS	59	55	39	35	27	43	68	-5.1	58.1	2.0
PHARMACEUTICAL SCIENCES	1,216	1,121	1,210	1,189	1,196	1,168	1,188	-.7	1.7	-.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,776	1,776	1,699	2,091	2,189	2,123	1,835	3.0	-13.6	.5
PSYCHIATRY	76	65	75	53	23	28	38	-15.3	35.7	-9.4
PULMONARY DISEASE	7	0	3	0	13	5	9	-5.5	80.0	3.7
RADIOLOGY	262	212	216	170	184	188	157	-5.4	-16.5	-7.1
SPEECH PATHOLOGY/AUDIOLOGY	1,499	1,376	1,229	879	861	745	737	-11.0	-1.1	-9.6
SURGERY	103	98	73	57	65	64	76	-7.6	21.9	-3.9
VETERINARY SCIENCES	296	306	329	323	252	229	234	-4.2	2.2	-3.3
CLINICAL MEDICINE, N.E.C.	210	156	175	154	174	141	177	-6.4	25.5	-2.4
HEALTH RELATED, N.E.C.	877	859	892	929	1,180	1,108	834	4.0	-24.7	-.7
PSYCHOLOGY	11,368	12,191	11,590	10,603	10,618	10,165	9,580	-1.8	-5.8	-2.4
SOCIAL SCIENCES	33,859	31,936	30,947	30,293	29,949	29,158	28,147	-2.5	-3.5	-2.6
AGRICULTURAL ECONOMICS	1,705	1,725	1,692	1,586	1,616	1,581	1,540	-1.3	-2.6	-1.4
ANTHROPOLOGY	2,718	2,557	2,492	2,201	2,146	1,944	1,861	-5.4	-4.3	-5.3
ECONOMICS (EXCEPT AGRICULTURAL)	6,823	6,482	6,540	6,483	7,007	7,087	6,979	.6	-1.5	.3
GEOGRAPHY	1,678	1,718	1,554	1,363	1,501	1,443	1,422	-2.5	-1.5	-2.3
HISTORY AND PHILOSOPHY OF SCIENCE	185	201	183	171	168	142	149	-4.3	4.9	-3.0
LINGUISTICS	947	915	829	973	979	972	939	.4	-3.4	-.1
POLITICAL SCIENCE	9,546	8,747	8,609	8,698	8,218	8,523	8,093	-1.9	-5.0	-2.3
SOCIOLOGY	3,729	3,616	3,316	2,922	2,842	2,680	2,334	-5.4	-12.9	-6.5
SOCIOLOGY/ANTHROPOLOGY	546	346	399	298	300	249	298	-12.3	19.7	-8.3
SOCIAL SCIENCES, N.E.C.	5,982	5,629	5,333	5,598	5,172	4,537	4,532	-4.5	-.1	-3.9

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	52,222	57,832	63,150	71,075	75,950	78,941	79,965	7.1	1.3	6.3
ENGINEERING	1,870	2,025	2,386	3,520	3,993	4,699	5,313	16.6	13.1	16.1
AEROSPACE	20	23	27	36	54	51	73	16.9	43.1	20.3
AGRICULTURAL	9	17	27	28	30	43	50	29.8	16.3	27.8
BIOMEDICAL	47	55	68	111	130	149	174	21.2	16.8	20.6
CHEMICAL	162	233	275	424	463	528	662	21.8	25.4	22.3
CIVIL	434	450	635	999	1,059	1,248	1,364	19.2	9.3	17.8
ELECTRICAL	228	295	377	450	549	698	804	20.5	15.2	19.7
ENGINEERING SCIENCE	68	80	70	84	105	114	131	9.0	14.9	9.8
INDUSTRIAL	478	401	412	593	666	702	782	6.6	11.4	7.3
MECHANICAL	112	119	137	255	314	345	426	20.6	23.5	21.0
METALLURGICAL/MATERIALS	99	107	140	212	230	284	305	19.2	7.4	17.4
MINING	11	15	17	24	26	35	33	21.3	-5.7	17.0
NUCLEAR	47	49	46	75	73	72	73	7.4	1.4	6.5
PETROLEUM	4	9	11	29	27	34	33	42.9	-2.9	35.2
ENGINEERING, N.E.C.	151	172	144	200	267	396	403	17.4	1.8	15.1
PHYSICAL SCIENCES	2,681	2,916	3,050	3,328	3,532	3,816	4,207	6.1	10.2	6.6
ASTRONOMY	70	69	73	72	72	83	94	2.9	13.3	4.3
CHEMISTRY	2,003	2,193	2,289	2,524	2,644	2,846	3,187	6.0	12.0	6.9
PHYSICS	577	633	661	713	790	864	910	7.0	5.3	6.7
PHYSICAL SCIENCES, N.E.C.	31	21	27	19	26	23	16	-4.9	-30.4	-9.0
ENVIRONMENTAL SCIENCES	1,224	1,516	1,688	2,125	2,286	2,416	2,636	12.0	9.1	11.6
ATMOSPHERIC SCIENCES	51	67	68	88	98	113	122	14.2	8.0	13.3
GEOSCIENCES	803	972	1,035	1,347	1,495	1,561	1,724	11.7	10.4	11.5
OCEANOGRAPHY	183	258	295	340	379	423	421	15.0	-.5	12.6
ENVIRONMENTAL SCIENCES, N.E.C.	187	219	290	350	314	319	369	9.3	15.7	10.2
MATHEMATICAL/COMPUTER SCIENCES	2,712	2,891	2,795	2,892	3,370	3,819	4,525	5.9	18.5	7.6
COMPUTER SCIENCE	591	678	695	914	1,238	1,491	2,006	16.7	34.5	19.1
MATHEMATICS AND APPLIED MATHEMATICS	1,792	1,863	1,756	1,652	1,750	1,928	2,072	1.2	7.5	2.1
STATISTICS	329	350	344	326	382	400	447	3.3	11.7	4.5
LIFE SCIENCES	19,747	22,601	25,344	28,965	30,425	30,769	30,828	7.7	.2	6.6
AGRICULTURAL SCIENCES	1,126	1,420	1,721	2,109	2,297	2,245	2,405	12.2	7.1	11.5
BIOLOGICAL SCIENCES	10,066	10,987	11,830	12,730	13,122	13,294	13,897	4.7	4.5	4.7
ANATOMY	299	328	351	391	385	358	370	3.0	3.4	3.1
BIOCHEMISTRY	841	932	1,008	1,111	1,159	1,205	1,339	6.2	11.1	6.9
BIOLOGY	2,574	2,857	2,937	2,903	3,015	2,897	2,993	2.0	3.3	2.2
BIOMETRY/EPIDEMIOLOGY	323	359	388	461	504	429	469	4.8	9.3	5.5
BIOPHYSICS	109	104	110	91	103	123	107	2.0	-13.0	-.3
BOTANY	809	957	1,000	1,013	1,032	1,032	1,130	4.1	9.5	4.9
CELL BIOLOGY	206	193	219	277	292	315	379	7.3	20.3	9.1
ECOLOGY	154	212	246	224	290	292	303	11.3	3.8	10.2
ENTOMOLOGY/PARASITOLOGY	187	206	240	297	308	308	319	8.7	3.6	7.9
GENETICS	295	322	374	366	371	372	434	3.9	16.7	5.7
MICROBIOLOGY	1,153	1,258	1,291	1,396	1,458	1,454	1,569	3.9	7.9	4.5
NUTRITION	1,161	1,269	1,566	1,784	1,726	1,908	1,897	8.6	-.6	7.3
PATHOLOGY	267	329	340	357	354	370	380	5.6	2.7	5.2
PHARMACOLOGY	349	394	440	529	604	646	675	10.8	4.5	9.9
PHYSIOLOGY	492	476	477	564	554	626	603	4.1	-3.7	2.9
ZOOLOGY	806	727	768	791	745	760	702	-1.0	-7.6	-2.0
BIOSCIENCES, N.E.C.	41	64	75	175	188	199	228	30.1	14.6	27.8
HEALTH SCIENCES	8,555	10,194	11,793	14,126	15,006	15,230	14,526	10.1	-4.6	7.9
ANESTHESIOLOGY	21	2	1	11	11	12	13	-8.9	8.3	-6.6
CANCER/ONCOLOGY	14	9	11	10	10	0	16	-100.0	**	1.9
CARDIOLOGY	5	0	1	0	1	0	1	-100.0	**	-20.5
DENTISTRY	93	105	119	195	201	180	151	11.6	-16.1	7.2
ENDOCRINOLOGY	13	11	10	15	24	25	31	11.5	24.0	13.2
GASTROENTEROLOGY	0	0	0	0	0	0	1	**	**	**
HEMATOLOGY	2	2	4	7	6	7	5	23.2	-28.6	14.0
NEUROLOGY	74	86	93	110	107	91	104	3.5	14.3	5.0
NURSING	2,683	3,683	5,020	5,805	5,953	6,405	5,883	15.6	-8.1	11.9
OBSTETRICS/GYNECOLOGY	14	14	9	9	1	6	12	-13.2	100.0	-2.2
OPHTHALMOLOGY	3	2	4	2	7	4	3	4.9	-25.0	.0
OTORHINOLARYNGOLOGY	6	10	21	2	2	4	3	-6.5	-25.0	-9.4
PEDIATRICS	97	88	73	84	100	102	76	.8	-25.5	-3.4
PHARMACEUTICAL SCIENCES	264	301	370	418	449	509	508	11.6	-.2	9.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,244	1,497	1,397	2,200	2,324	2,313	2,188	10.9	-5.4	8.4
PSYCHIATRY	46	49	52	67	38	29	34	-7.4	17.2	-4.2
PULMONARY DISEASE	0	0	0	1	2	4	3	**	-25.0	**
RADIOLOGY	58	58	53	50	49	49	54	-2.8	10.2	-1.0
SPEECH PATHOLOGY/AUDIOLOGY	3,140	3,349	3,415	3,580	3,924	3,766	3,756	3.1	-.3	2.6
SURGERY	17	18	16	3	14	10	12	-8.5	20.0	-4.9
VETERINARY SCIENCES	83	101	106	133	130	125	134	7.1	7.2	7.1
CLINICAL MEDICINE, N.E.C.	35	33	53	81	107	95	121	18.1	27.4	19.4
HEALTH RELATED, N.E.C.	643	776	965	1,343	1,546	1,494	1,417	15.1	-5.2	11.9
PSYCHOLOGY	8,342	9,262	9,649	10,115	10,954	11,370	11,564	5.3	1.7	4.8
SOCIAL SCIENCES	15,646	16,621	18,238	20,130	21,390	22,052	20,891	5.9	-5.3	4.2
AGRICULTURAL ECONOMICS	174	195	248	344	411	433	388	16.4	-10.4	12.1
ANTHROPOLOGY	2,144	2,335	2,432	2,263	2,330	2,300	2,166	1.2	-5.8	.1
ECONOMICS (EXCEPT AGRICULTURAL)	1,188	1,320	1,509	1,656	1,959	2,002	2,172	9.1	8.5	9.0
GEOGRAPHY	502	528	562	560	595	658	613	4.6	-6.8	2.9
HISTORY AND PHILOSOPHY OF SCIENCE	74	69	74	63	73	75	74	.2	-1.3	.0
LINGUISTICS	1,026	1,165	994	1,197	1,172	1,195	1,188	2.6	-.6	2.1
POLITICAL SCIENCE	2,572	2,599	3,005	3,758	3,823	4,168	3,993	8.4	-4.2	6.5
SOCIOLOGY	2,535	2,648	2,630	2,494	2,705	2,634	2,486	.6	-5.6	-.3
SOCIOLOGY/ANTHROPOLOGY	394	278	279	280	254	260	304	-6.7	16.9	-3.6
SOCIAL SCIENCES, N.E.C.	5,037	5,484	6,505	7,515	8,068	8,327	7,508	8.7	-9.8	5.9

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-82

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	210,321	214,089	217,453	216,608	223,409	230,686	234,371	237,676	1.8	1.4	1.8
NEW ENGLAND	15,782	16,978	16,700	17,018	17,936	19,096	19,409	15,584	3.5	.9	3.1
CONNECTICUT	2,820	3,111	3,044	3,039	3,120	3,456	3,567	3,691	4.0	3.5	3.9
MAINE	364	389	378	378	355	344	313	361	-2.5	15.3	-.1
MASSACHUSETTS	10,316	11,224	11,020	11,374	12,138	13,034	13,217	13,074	4.2	-1.1	3.4
NEW HAMPSHIRE	587	601	632	530	620	647	613	672	.7	9.6	2.0
RHODE ISLAND	1,317	1,268	1,281	1,353	1,342	1,233	1,301	1,371	-.2	5.4	.6
VERMONT	378	385	345	344	361	382	398	415	.9	4.3	1.3
MIDDLE ATLANTIC	30,941	30,530	31,096	30,864	31,995	34,591	36,272	36,305	2.7	.1	2.3
NEW JERSEY	3,471	3,222	3,190	3,190	3,626	3,905	4,091	4,063	2.8	-.7	2.3
NEW YORK	19,311	18,602	19,078	18,722	19,465	20,907	21,783	21,765	2.0	-.1	1.7
PENNSYLVANIA	8,159	8,706	8,828	8,652	8,904	9,779	10,398	10,477	4.1	.8	3.6
EAST NORTH CENTRAL	43,424	43,459	43,728	42,637	43,350	44,197	43,752	43,964	.1	.5	.2
ILLINOIS	11,352	11,070	11,115	11,063	11,312	11,577	11,470	11,703	.2	2.0	.4
INDIANA	5,685	5,751	5,663	5,677	5,655	5,737	5,751	5,798	.2	.8	.3
MICHIGAN	10,130	9,896	10,234	9,666	9,825	9,670	9,098	9,105	-1.8	.1	-1.5
OHIO	9,576	10,501	10,544	10,316	10,655	11,075	11,120	11,146	2.5	.2	2.2
WISCONSIN	6,681	6,241	6,172	5,915	5,903	6,138	6,313	6,212	-.9	-1.6	-1.0
WEST NORTH CENTRAL	16,455	16,988	16,863	16,620	17,061	17,839	17,823	17,937	1.3	.6	1.2
IOWA	2,942	3,140	3,101	3,199	3,447	3,532	3,478	3,739	2.8	7.5	3.5
KANSAS	2,807	3,018	3,096	3,054	2,988	3,327	3,308	3,289	2.8	-.6	2.3
MINNESOTA	4,439	4,238	4,054	4,050	4,259	4,321	4,360	4,295	-.3	-1.5	-.5
MISSOURI	4,203	4,276	4,200	3,893	3,899	3,979	3,876	3,833	-1.3	-1.1	-1.3
NEBRASKA	1,015	1,191	1,329	1,326	1,431	1,488	1,531	1,512	7.1	-1.2	5.9
NORTH DAKOTA	631	701	607	633	589	687	757	770	3.1	1.7	2.9
SOUTH DAKOTA	418	424	476	465	448	505	513	499	3.5	-2.7	2.6
SOUTH ATLANTIC	28,429	28,037	28,932	29,104	30,532	30,878	32,070	32,455	2.0	1.2	1.9
DELAWARE	590	572	630	635	710	733	726	734	3.5	1.1	3.2
DISTRICT OF COLUMBIA	3,792	3,229	3,754	3,499	3,961	3,557	3,726	3,435	-.3	-7.8	-1.4
FLORIDA	4,961	5,154	4,943	4,998	5,364	5,453	6,047	6,229	3.4	3.0	3.3
GEORGIA	3,614	3,616	3,792	3,951	4,020	4,191	4,458	4,618	3.6	3.6	3.6
MARYLAND	3,903	3,422	3,446	3,384	3,489	3,464	3,563	3,534	-1.5	-.8	-1.4
NORTH CAROLINA	4,808	4,844	4,949	5,193	5,458	5,557	5,486	5,833	2.2	6.3	2.8
SOUTH CAROLINA	1,833	1,929	1,937	1,755	1,799	1,950	1,938	1,914	.9	-1.2	.6
VIRGINIA	3,663	3,892	4,097	4,212	4,342	4,643	4,864	4,860	4.8	-.1	4.1
WEST VIRGINIA	1,265	1,379	1,384	1,477	1,389	1,330	1,262	1,298	*	2.9	.4
EAST SOUTH CENTRAL	8,424	8,851	9,256	9,244	9,359	9,144	8,918	8,901	1.0	-.2	.8
ALABAMA	1,635	1,864	2,079	2,287	2,433	2,404	2,288	2,268	5.8	-.9	4.8
KENTUCKY	1,700	1,725	1,774	1,746	1,778	1,818	1,885	1,858	1.7	-1.4	1.3
MISSISSIPPI	1,411	1,434	1,482	1,546	1,526	1,456	1,418	1,503	.1	6.0	.9
TENNESSEE	3,678	3,828	3,921	3,665	3,622	3,466	3,327	3,272	-1.7	-1.7	-1.7
WEST SOUTH CENTRAL	16,375	17,272	18,208	18,243	18,943	19,428	19,560	21,112	3.0	7.9	3.7
ARKANSAS	695	753	781	744	774	760	864	890	3.7	3.0	3.6
LOUISIANA	2,068	2,063	2,226	2,493	2,482	2,508	2,769	3,000	5.0	8.3	5.5
OKLAHOMA	2,464	2,437	2,677	2,669	2,730	2,921	2,550	2,790	.6	9.4	1.8
TEXAS	11,148	12,019	12,524	12,337	12,957	13,239	13,377	14,432	3.1	7.9	3.8
MOUNTAIN	15,789	15,581	15,207	15,203	15,162	15,494	15,898	16,790	.1	5.6	.9
ARIZONA	3,372	3,455	3,410	3,417	3,452	3,744	3,819	4,139	2.1	8.4	3.0
COLORADO	6,170	5,789	5,416	5,198	5,110	5,007	5,237	5,212	-2.7	-.5	-2.4
IDAHO	699	740	792	795	653	640	621	657	-2.0	5.8	-.9
MONTANA	709	739	717	687	686	756	751	901	1.0	20.0	3.5
NEVADA	357	399	346	326	361	365	350	355	-.3	1.4	-.1
NEW MEXICO	1,266	1,248	1,263	1,439	1,522	1,566	1,604	1,649	4.0	2.8	3.8
UTAH	2,625	2,613	2,668	2,741	2,821	2,990	2,851	3,176	1.4	11.4	2.8
WYOMING	591	598	595	600	557	426	665	701	2.0	5.4	2.5
PACIFIC	33,635	35,377	36,394	36,619	38,116	38,696	39,279	39,169	2.6	-.3	2.2
ALASKA	131	170	190	223	234	244	228	271	9.7	18.9	10.9
CALIFORNIA	26,038	27,075	27,319	27,675	29,076	29,182	30,165	30,493	2.5	1.1	2.3
HAWAII	1,331	1,353	1,373	1,333	1,292	1,723	1,738	1,758	4.5	1.2	4.1
OREGON	2,276	2,398	2,681	2,706	2,751	2,766	2,619	2,599	2.4	-.8	1.9
WASHINGTON	3,859	4,381	4,831	4,682	4,763	4,781	4,529	4,048	2.7	-10.6	.7
OUTLYING AREAS	1,067	1,016	1,069	1,056	955	1,323	1,390	1,459	4.5	5.0	4.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	210,321	214,089	217,453	216,608	223,409	230,686	234,371	237,676	1.8	1.4	1.8
FEDERAL, TOTAL	48,249	48,594	50,378	51,269	52,871	52,955	50,905	47,485	.9	-6.7	-.2
DEPT OF DEFENSE	5,084	4,798	4,993	0	4,998	5,239	5,647	5,954	1.8	5.4	2.3
DEPT OF HHS, TOTAL	20,869	20,366	21,081	21,756	22,649	19,389	18,025	16,178	-2.4	-10.2	-3.6
NIH	12,214	11,360	10,928	10,876	11,660	11,572	11,290	10,994	-1.3	-2.6	-1.5
OTHER HHS	8,655	9,006	10,153	10,880	10,989	7,817	6,735	5,184	-4.1	-23.0	-7.1
NSF	8,796	8,962	9,023	9,009	9,275	9,245	9,085	9,219	.5	1.5	.7
ALL OTHER FEDERAL	13,500	14,468	15,281	20,504	15,949	19,082	18,148	16,134	5.1	-11.1	2.6
INSTITUTIONAL SUPPORT	77,083	79,217	80,404	79,727	82,813	86,742	90,294	93,478	2.7	3.5	2.8
OTHER OUTSIDE SUPPORT, TOTAL	16,8[illegible]	17,680	18,227	19,265	20,039	21,114	22,434	23,796	4.9	6.1	5.1
ALL OTHER U.S.	11,44[illegible]	11,373	11,323	19,265	12,493	13,084	13,866	14,959	3.3	7.9	3.9
FOREIGN	5,412	6,307	6,906	0	7,546	8,030	8,568	8,837	8.0	3.1	7.3
SELF-SUPPORT	68,137	68,598	68,442	66,347	67,686	69,875	70,738	72,917	.6	3.1	1.0
ENGINEERING:											
TOTAL, ALL SOURCES	37,083	36,434	37,008	37,390	39,700	42,300	45,203	49,106	3.4	8.6	4.1
FEDERAL, TOTAL	10,258	10,536	10,701	10,611	10,871	11,219	11,037	11,100	1.2	.6	1.1
DEPT OF DEFENSE	2,869	2,664	2,804	0	2,665	2,934	3,149	3,429	1.6	8.9	2.6
DEPT OF HHS, TOTAL	994	1,011	942	1,005	1,044	662	546	501	-9.5	-8.2	-9.3
NIH	717	686	553	548	513	508	447	403	-7.6	-9.8	-7.9
OTHER HHS	277	325	389	457	531	154	99	98	-15.8	-1.0	-13.8
NSF	2,575	2,566	2,509	2,342	2,413	2,411	2,369	2,571	-1.4	8.5	*
ALL OTHER FEDERAL	3,820	4,295	4,446	7,264	4,749	5,212	4,973	4,599	4.5	-7.5	2.7
INSTITUTIONAL SUPPORT	10,265	10,465	10,[illegible]	10,648	11,581	12,691	14,158	15,196	5.5	7.3	5.8
OTHER OUTSIDE SUPPORT, TOTAL	4,520	4,868	5,171	5,36[illegible]	5,657	6,223	6,957	7,714	7.5	10.9	7.9
ALL OTHER U.S.	3,034	3,141	3,242	5,360	[illegible]724	4,197	4,788	5,279	7.9	10.3	8.2
FOREIGN	1,486	1,727	1,929	0	1,[illegible]33	2,026	2,169	2,435	6.[illegible]	12.3	7.3
SELF-SUPPORT	12,040	10,565	10,568	10,771	11,591	12,167	13,051	15,096	1.4	15.7	3.3
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	21,274	21,582	21,741	21,485	21,781	22,259	22,603	23,365	1.0	3.4	1.3
FEDERAL, TOTAL	6,208	6,363	6,572	6,939	7,411	7,655	7,898	7,656	4.1	-3.1	3.0
DEPT OF DEFENSE	537	492	550	0	640	661	753	707	5.8	-6.1	4.0
DEPT OF HHS, TOTAL	1,276	1,354	1,329	1,407	1,584	1,627	1,515	1,490	2.9	-1.7	2.2
NIH	1,206	1,243	1,187	1,276	1,413	1,536	1,408	1,408	2.6	.0	2.2
OTHER HHS	70	111	142	131	171	91	107	82	7.3	-23.4	2.3
NSF	2,604	2,756	2,761	2,817	2,956	2,878	3,029	3,107	2.6	2.6	2.6
ALL OTHER FEDERAL	1,791	1,761	1,932	2,715	2,231	2,489	2,601	2,352	6.4	-9.6	4.0
INSTITUTIONAL SUPPORT	12,037	12,199	12,219	11,773	11,472	11,930	11,923	12,596	-.2	5.6	.7
OTHER OUTSIDE SUPPORT, TOTAL	1,185	1,327	1,346	1,348	1,478	1,308	1,418	1,744	3.0	23.0	5.7
ALL OTHER U.S.	909	949	953	1,348	1,084	949	1,053	1,299	2.5	23.4	5.2
FOREIGN	276	378	393	0	394	359	365	445	4.8	21.9	7.1
SELF-SUPPORT	1,844	1,693	1,604	1,425	1,420	1,366	1,364	1,369	-4.9	.4	-4.2
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	8,989	9,528	9,847	9,830	10,037	10,112	10,332	10,747	2.3	4.0	2.6
FEDERAL, TOTAL	2,693	2,884	3,025	3,127	3,453	3,360	2,949	2,804	1.5	-4.9	.6
DEPT OF DEFENSE	373	363	330	0	328	296	307	299	-3.2	-2.6	-3.1
DEPT OF HHS, TOTAL	113	161	233	278	283	115	96	73	-2.7	-24.0	-6.1
NIH	30	34	49	31	31	31	17	38	-9.0	123.5	3.4
OTHER HHS	83	127	184	247	252	84	79	35	-.8	-55.7	-11.6
NSF	1,144	1,195	1,198	1,243	1,273	1,242	1,196	1,187	.7	-.8	.5
ALL OTHER FEDERAL	1,063	1,165	1,264	1,606	1,569	1,707	1,350	1,245	4.1	-7.8	2.3
INSTITUTIONAL SUPPORT	3,239	3,447	3,552	3,450	3,463	3,586	3,865	4,070	3.0	5.3	3.3
OTHER OUTSIDE SUPPORT, TOTAL	741	732	750	838	821	990	1,080	1,167	6.5	8.1	6.7
ALL OTHER U.S.	479	423	409	838	507	649	706	794	6.7	12.5	7.5
FOREIGN	262	309	341	0	314	347	374	373	6.1	-.3	5.2
SELF-SUPPORT	2,316	2,465	2,520	2,415	2,300	2,170	2,438	2,706	.9	11.0	2.2
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	14,125	14,525	13,975	13,690	14,177	15,253	16,136	18,181	2.2	12.7	3.7
FEDERAL, TOTAL	1,436	1,422	1,434	1,468	1,627	1,717	1,725	1,866	3.1	8.2	3.8
DEPT OF DEFENSE	574	583	516	0	608	621	733	816	4.2	11.3	5.2
DEPT OF HHS, TOTAL	168	151	142	160	141	122	84	85	-10.9	1.2	-9.3
NIH	131	131	122	118	102	100	71	67	-9.7	-5.6	-9.1
OTHER HHS	37	20	20	42	39	22	13	18	-16.0	38.5	-9.8
NSF	498	480	542	537	584	593	603	615	3.2	2.0	3.1
ALL OTHER FEDERAL	196	208	234	771	294	381	305	350	7.6	14.8	8.6
INSTITUTIONAL SUPPORT	8,155	8,300	8,032	7,914	7,937	8,298	8,770	9,424	1.2	7.5	2.1
OTHER OUTSIDE SUPPORT, TOTAL	801	842	822	844	1,041	1,117	1,124	1,206	5.8	7.3	6.0
ALL OTHER U.S.	396	395	419	844	593	647	619	684	7.7	10.5	8.1
FOREIGN	405	447	403	0	448	470	505	522	3.7	3.4	3.7
SELF-SUPPORT	3,733	3,961	3,687	3,464	3,572	4,121	4,517	5,685	3.2	25.9	6.2

CONTINUED ON NEXT PAGE.

TABLE C-14. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	8,512	9,053	9,315	9,259	9,383	9,660	9,696	9,675	2.2	-0.2	1.8
FEDERAL, TOTAL	1,637	1,625	1,670	1,756	1,752	1,786	1,712	1,668	.7	-2.6	.3
DEPT OF DEFENSE	15	22	15	0	16	11	11	9	-5.0	-18.2	-7.0
DEPT OF HHS, TOTAL	103	83	69	85	104	124	59	38	-8.9	-35.6	-13.3
NIH	75	58	50	43	69	110	53	33	-5.6	-37.7	-11.1
OTHER HHS	28	25	19	42	35	14	6	5	-22.6	-16.7	-21.8
NSF	133	105	75	86	74	82	70	71	-10.1	1.4	-8.6
ALL OTHER FEDERAL	1,386	1,415	1,511	1,585	1,558	1,569	1,572	1,550	2.1	-1.4	1.6
INSTITUTIONAL SUPPORT	2,825	3,104	3,166	3,203	3,419	3,380	3,462	3,503	3.4	1.2	3.1
OTHER OUTSIDE SUPPORT, TOTAL	1,618	1,767	1,826	1,796	1,805	2,047	2,143	2,049	4.8	-4.4	3.4
ALL OTHER U.S.	810	799	875	1,796	800	924	948	888	2.7	-6.3	1.3
FOREIGN	808	968	951	0	1,005	1,123	1,195	1,161	6.7	-2.8	5.3
SELF-SUPPORT	2,432	2,557	2,653	2,504	2,407	2,447	2,379	2,455	-.4	3.2	.1
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	34,795	35,438	36,021	35,764	35,641	35,620	35,259	35,212	.2	-.1	.2
FEDERAL, TOTAL	9,951	9,771	9,926	10,125	10,780	10,670	10,455	10,094	.8	-3.5	.2
DEPT OF DEFENSE	143	145	133	0	120	161	116	120	-3.4	3.4	-2.5
DEPT OF HHS, TOTAL	7,314	6,779	6,885	7,045	7,546	7,198	7,171	6,987	-.3	-2.6	-.7
NIH	6,716	6,270	6,425	6,524	6,979	6,803	6,787	6,669	.2	-1.7	-.1
OTHER HHS	598	509	460	521	567	395	384	318	-7.1	-17.2	-8.6
NSF	921	1,040	1,130	1,193	1,137	1,167	1,086	1,070	2.8	-1.5	2.2
ALL OTHER FEDERAL	1,573	1,807	1,778	1,887	1,977	2,144	2,082	1,917	4.8	-7.9	2.9
INSTITUTIONAL SUPPORT	13,922	14,525	15,091	14,827	14,959	15,484	15,608	15,768	1.9	1.0	1.8
OTHER OUTSIDE SUPPORT, TOTAL	2,285	2,519	2,518	2,741	2,871	2,725	2,743	3,061	3.1	11.6	4.3
ALL OTHER U.S.	1,651	1,745	1,655	2,741	1,782	1,744	1,677	1,986	.3	18.4	2.7
FOREIGN	634	774	863	0	1,089	981	1,066	1,075	9.0	.8	7.8
SELF-SUPPORT	8,637	8,623	8,486	8,071	7,031	6,741	6,453	6,289	-4.7	-2.5	-4.4
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	16,328	17,519	19,122	20,288	21,549	22,571	22,397	21,207	5.4	-5.3	3.8
FEDERAL, TOTAL	6,000	6,374	7,375	7,742	8,080	8,245	7,722	6,221	4.3	-19.4	.5
DEPT OF DEFENSE	143	134	185	0	170	165	183	193	4.2	5.5	4.4
DEPT OF HHS, TOTAL	5,270	5,629	6,442	6,742	7,170	6,184	5,622	4,779	1.1	-15.0	-1.4
NIH	1,244	1,096	918	909	935	925	1,103	1,284	-2.0	16.4	.5
OTHER HHS	4,026	4,533	5,524	5,833	6,235	5,259	4,519	3,495	1.9	-22.7	-2.0
NSF	32	44	47	57	50	49	36	41	2.0	13.9	3.6
ALL OTHER FEDERAL	555	567	701	943	690	1,847	1,881	1,208	22.6	-35.8	11.8
INSTITUTIONAL SUPPORT	3,290	3,399	3,511	3,612	4,058	4,533	4,395	4,703	4.9	7.0	5.2
OTHER OUTSIDE SUPPORT, TOTAL	873	922	1,008	1,166	1,242	1,210	1,266	1,298	6.4	2.5	5.8
ALL OTHER U.S.	603	631	650	1,166	759	725	821	848	5.3	3.3	5.0
FOREIGN	270	291	358	0	483	485	445	450	8.7	1.1	7.6
SELF-SUPPORT	6,165	6,924	7,228	7,768	8,169	8,583	9,014	8,985	6.5	-.3	5.5
PSYCHOLOGY:											
TOTAL, ALL SOURCES	19,710	21,453	21,239	20,693	20,718	21,572	21,535	21,144	1.5	-1.8	1.0
FEDERAL, TOTAL	4,324	4,073	3,931	3,931	3,436	3,185	2,893	2,289	-6.5	-20.9	-8.7
DEPT OF DEFENSE	134	140	157	0	150	127	139	114	.6	-18.0	-2.3
DEPT OF HHS, TOTAL	3,130	2,973	2,822	2,906	2,481	1,870	1,632	1,305	-10.3	-20.0	-11.7
NIH	1,426	1,267	1,177	1,083	1,075	1,009	898	725	-7.4	-19.3	-9.2
OTHER HHS	1,704	1,706	1,645	1,823	1,406	861	734	580	-13.1	-21.0	-14.3
NSF	270	212	226	222	254	280	243	207	-1.7	-14.8	-3.7
ALL OTHER FEDERAL	790	748	726	803	551	908	879	663	1.8	-24.6	-2.5
INSTITUTIONAL SUPPORT	6,956	7,345	7,501	7,435	7,452	7,853	8,601	8,601	3.6	.0	3.1
OTHER OUTSIDE SUPPORT, TOTAL	1,186	1,274	1,292	1,602	1,351	1,437	1,505	1,379	4.0	-8.4	2.2
ALL OTHER U.S.	1,104	1,190	1,186	1,602	1,238	1,321	1,430	1,306	4.4	-8.7	2.4
FOREIGN	82	84	106	0	113	116	75	73	-1.5	-2.7	-1.6
SELF-SUPPORT	7,244	8,761	8,515	7,725	8,479	9,097	8,536	8,875	2.8	4.0	2.9
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	49,505	48,557	49,185	48,209	50,423	51,339	51,210	49,039	.6	-4.2	-.1
FEDERAL, TOTAL	5,742	5,546	5,744	5,570	5,461	5,118	4,514	3,787	-3.9	-16.1	-5.8
DEPT OF DEFENSE	296	255	303	0	301	263	256	267	-2.4	4.3	-1.5
DEPT OF HHS, TOTAL	2,501	2,225	2,217	2,128	2,296	1,487	1,300	920	-10.3	-29.2	-13.3
NIH	669	575	447	344	543	550	506	367	-4.5	-27.5	-8.2
OTHER HHS	1,832	1,650	1,770	1,784	1,753	937	794	553	-13.0	-30.4	-15.7
NSF	619	564	535	512	534	543	453	350	-5.1	-22.7	-7.8
ALL OTHER FEDERAL	2,326	2,502	2,689	2,930	2,330	2,825	2,505	2,250	1.2	-10.2	-.5
INSTITUTIONAL SUPPORT	16,394	16,533	16,764	16,865	18,472	18,987	19,512	19,617	2.9	.5	2.6
OTHER OUTSIDE SUPPORT, TOTAL	3,643	3,429	3,496	3,570	3,773	4,051	4,198	4,178	2.4	-.5	2.0
ALL OTHER U.S.	2,454	2,100	1,934	3,570	2,006	1,928	1,824	1,875	-4.8	2.8	-3.8
FOREIGN	1,189	1,329	1,562	0	1,767	2,123	2,374	2,303	12.2	-3.0	9.9
SELF-SUPPORT	23,726	23,049	23,181	22,204	22,717	23,183	22,986	21,457	-.5	-6.7	-1.4

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	48,249	48,594	50,378	51,269	52,871	52,955	50,905	47,485	.9	-6.7	-.2
ENGINEERING	10,258	10,536	10,701	10,611	10,871	11,219	11,037	11,100	1.2	.6	1.1
AEROSPACE	592	514	584	495	522	573	702	760	2.9	8.3	3.6
AGRICULTURAL	128	95	161	157	133	131	147	147	2.3	.0	2.0
BIOMEDICAL	291	273	213	232	286	248	221	229	-4.5	3.6	-3.4
CHEMICAL	1,024	1,095	1,160	1,168	1,187	1,281	1,290	1,282	3.9	-.6	3.3
CIVIL	1,612	1,572	1,524	1,484	1,474	1,606	1,357	1,330	-2.8	-2.0	-2.7
ELECTRICAL	2,273	2,247	2,392	2,394	2,415	2,575	2,490	2,645	1.5	6.2	2.2
ENGINEERING SCIENCE	611	581	540	580	605	637	658	632	1.2	-4.0	.5
INDUSTRIAL	541	626	639	596	686	516	528	408	-.4	-22.7	-4.0
MECHANICAL	1,398	1,508	1,441	1,405	1,496	1,476	1,508	1,514	1.3	.4	1.1
METALLURGICAL/MATERIALS	836	936	955	999	1,140	1,130	1,201	1,136	6.2	-5.4	4.5
MINING	132	185	191	167	164	162	168	97	4.1	-42.3	-4.3
NUCLEAR	349	359	324	377	284	271	273	299	-4.0	9.5	-2.2
PETROLEUM	39	56	73	60	67	71	53	58	5.2	9.4	5.8
ENGINEERING, N.E.C.	427	489	504	497	412	442	441	563	.5	27.7	4.0
PHYSICAL SCIENCES	6,208	6,363	6,572	6,939	7,411	7,655	7,898	7,656	4.1	-3.1	3.0
ASTRONOMY	264	279	258	277	249	264	254	218	-.6	-14.2	-2.7
CHEMISTRY	3,105	3,242	3,366	3,650	3,973	4,162	4,246	4,264	5.4	.4	4.6
PHYSICS	2,817	2,834	2,928	3,002	3,180	3,209	3,391	3,169	3.1	-6.5	1.7
PHYSICAL SCIENCES, N.E.C.	22	8	20	10	9	20	7	5	-17.4	-28.6	-19.1
ENVIRONMENTAL SCIENCES	2,693	2,884	3,025	3,127	3,453	3,360	2,949	2,804	1.5	-4.9	.6
ATMOSPHERIC SCIENCES	484	527	540	504	528	517	480	485	-.1	1.0	*
GEOSCIENCES	1,249	1,425	1,556	1,596	1,821	1,824	1,472	1,393	2.8	-5.4	1.6
OCEANOGRAPHY	696	658	667	727	773	732	694	684	*	-1.4	-.2
ENVIRONMENTAL SCIENCES, N.E.C.	264	274	262	300	331	287	303	242	2.3	-20.1	-1.2
MATHEMATICAL/COMPUTER SCIENCES	1,436	1,422	1,434	1,468	1,627	1,717	1,725	1,866	3.1	8.2	3.8
COMPUTER SCIENCE	743	708	711	736	815	926	962	1,102	4.4	14.6	5.8
MATHEMATICS AND APPLIED MATHEMATICS	525	532	521	554	654	646	660	643	3.9	-2.6	2.9
STATISTICS	168	182	202	178	158	145	103	121	-7.8	17.5	-4.6
LIFE SCIENCES	17,588	17,770	18,971	19,623	20,612	20,701	19,889	17,983	2.1	-9.6	.3
AGRICULTURAL SCIENCES	1,637	1,625	1,670	1,756	1,752	1,786	1,712	1,668	.7	-2.6	.3
BIOLOGICAL SCIENCES	9,951	9,771	9,926	10,125	10,780	10,670	10,455	10,094	.8	-3.5	.2
ANATOMY	297	258	252	249	263	250	246	208	-3.1	-15.4	-5.0
BIOCHEMISTRY	1,629	1,670	1,757	1,709	1,779	1,752	1,784	1,867	1.5	4.7	2.0
BIOLOGY	1,527	1,602	1,576	1,713	1,848	1,763	1,696	1,604	1.8	-5.4	.7
BIOMETRY/EPIDEMIOLOGY	323	287	307	378	354	398	419	346	4.4	-17.4	1.0
BIOPHYSICS	352	345	332	305	309	270	221	211	-7.5	-4.5	-7.1
BOTANY	469	527	578	572	611	621	542	575	2.4	6.1	3.0
CELL BIOLOGY	295	254	354	412	459	509	563	605	11.4	7.5	10.8
ECOLOGY	135	166	164	229	179	200	171	157	4.0	-8.2	2.2
ENTOMOLOGY/PARASITOLOGY	342	319	303	271	271	350	312	265	-1.5	-15.1	-3.6
GENETICS	394	328	395	384	391	391	351	361	-1.9	2.8	-1.2
MICROBIOLOGY	1,293	1,246	1,211	1,225	1,326	1,319	1,210	1,227	-1.1	1.4	-.7
NUTRITION	569	566	591	552	591	608	557	523	-.4	-6.1	-1.2
PATHOLOGY	362	324	263	242	299	317	331	318	-1.5	-3.9	-1.8
PHARMACOLOGY	736	756	753	790	872	818	844	799	2.3	-5.3	1.2
PHYSIOLOGY	704	634	641	629	645	615	649	539	-1.3	-16.9	-3.7
ZOOLOGY	486	440	387	397	450	359	374	305	-4.3	-18.4	-6.4
BIOSCIENCES, N.E.C.	38	49	62	68	133	130	185	184	30.2	-.5	25.3
HEALTH SCIENCES	6,000	6,374	7,375	7,742	8,080	8,245	7,722	6,221	4.3	-19.4	.5
ANESTHESIOLOGY	5	2	0	0	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	54	40	49	49	43	42	0	54	-100.0	**	.0
CARDIOLOGY	19	0	2	2	3	4	0	3	-100.0	**	-23.2
DENTISTRY	143	112	126	136	140	131	86	81	-8.1	-5.8	-7.8
ENDOCRINOLOGY	17	12	10	12	13	20	23	22	5.2	-4.3	3.8
GASTROENTEROLOGY	8	6	5	1	0	0	0	1	-100.0	**	-25.7
HEMATOLOGY	0	0	0	1	0	0	3	1	**	-66.7	**
NEUROLOGY	203	182	171	201	202	202	168	179	-3.1	6.5	-1.8
NURSING	1,927	2,687	3,642	3,699	3,640	3,795	3,830	3,206	12.1	-16.3	7.5
OBSTETRICS/GYNECOLOGY	21	23	17	12	18	2	2	9	-32.4	350.0	-11.4
OPHTHALMOLOGY	10	6	6	1	2	10	11	11	1.6	.0	1.4
OTORHINOLARYNGOLOGY	28	26	14	9	8	4	5	5	-25.0	.0	-21.8
PEDIATRICS	62	62	43	41	58	56	74	40	3.0	-45.9	-4.1
PHARMACEUTICAL SCIENCES	338	329	354	306	302	299	348	291	.5	-16.4	-2.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,425	1,363	1,260	1,643	1,940	1,964	1,764	1,163	3.6	-34.1	-2.9
PSYCHIATRY	39	29	41	30	51	16	17	14	-12.9	-17.6	-13.6
PULMONARY DISEASE	5	0	0	0	0	2	3	4	-8.2	33.3	-3.1
RADIOLOGY	143	108	97	70	68	74	74	86	-10.4	16.2	-7.0
SPEECH PATHOLOGY/AUDIOLOGY	859	804	884	811	826	782	670	591	-4.1	-11.8	-5.2
SURGERY	31	29	18	7	1	7	16	7	-10.4	-56.3	-19.2
VETERINARY SCIENCES	91	72	81	80	85	72	68	56	-4.7	-17.6	-6.7
CLINICAL MEDICINE, N.E.C.	73	29	43	30	50	88	43	85	-8.4	97.7	2.2
HEALTH RELATED, N.E.C.	499	453	512	601	630	675	517	312	.6	-39.7	-6.5
PSYCHOLOGY	4,324	4,073	3,931	3,931	3,436	3,185	2,893	2,289	-6.5	-20.9	-8.7
SOCIAL SCIENCES	5,742	5,546	5,744	5,570	5,461	5,118	4,514	3,787	-3.9	-16.1	-5.8
AGRICULTURAL ECONOMICS	472	434	509	524	445	452	478	387	.2	-19.0	-2.8
ANTHROPOLOGY	630	582	548	512	464	431	407	332	-7.0	-18.4	-8.7
ECONOMICS (EXCEPT AGRICULTURAL)	646	546	590	518	539	590	436	299	-6.3	-31.4	-10.4
GEOGRAPHY	152	176	167	154	126	128	108	117	-5.5	8.3	-3.7
HISTORY AND PHILOSOPHY OF SCIENCE	15	18	14	8	15	19	7	11	-11.9	57.1	-4.3
LINGUISTICS	153	189	146	126	150	135	155	233	.2	50.3	6.2
POLITICAL SCIENCE	647	786	1,113	1,094	1,006	891	827	780	4.2	-5.7	2.7
SOCIOLOGY	1,082	945	822	762	748	690	678	477	-7.5	-29.6	-11.0
SOCIOLOGY/ANTHROPOLOGY	60	56	41	37	42	55	16	22	-19.8	37.5	-13.4
SOCIAL SCIENCES, N.E.C.	1,885	1,814	1,794	1,835	1,926	1,727	1,402	1,129	-4.8	-19.5	-7.1

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	77,083	79,217	80,404	79,727	82,813	86,742	90,294	93,478	2.7	3.5	2.8
ENGINEERING	10,265	10,465	10,568	10,648	11,581	12,691	14,158	15,196	5.5	7.3	5.8
AEROSPACE	319	340	289	336	331	403	369	346	2.5	-6.2	1.2
AGRICULTURAL	211	198	200	212	252	216	265	278	3.9	4.9	4.0
BIOMEDICAL	190	182	190	184	217	234	263	263	5.6	.0	4.8
CHEMICAL	1,054	1,136	1,193	1,248	1,420	1,429	1,703	1,936	8.3	13.7	9.1
CIVIL	1,842	1,901	2,108	2,135	2,225	2,476	2,702	2,842	6.6	5.2	6.4
ELECTRICAL	2,468	2,444	2,320	2,355	2,598	2,897	3,311	3,561	5.0	7.6	5.4
ENGINEERING SCIENCE	289	362	408	428	323	334	357	407	3.6	14.0	5.0
INDUSTRIAL	914	935	875	840	941	982	1,094	1,206	3.0	10.2	4.0
MECHANICAL	1,470	1,579	1,584	1,599	1,765	1,996	2,184	2,425	6.8	11.0	7.4
METALLURGICAL/MATERIALS	439	364	391	403	383	494	531	552	3.2	4.0	3.3
MINING	69	63	62	75	63	68	59	91	-2.6	54.2	4.0
NUCLEAR	398	363	380	246	365	325	321	281	-3.5	-12.5	-4.9
PETROLEUM	37	46	60	61	90	127	120	116	21.7	-3.3	17.7
ENGINEERING, N.E.C.	565	552	508	526	608	710	879	892	7.6	1.5	6.7
PHYSICAL SCIENCES	12,037	12,199	12,219	11,773	11,472	11,930	11,923	12,596	-.2	5.6	.7
ASTRONOMY	275	246	245	222	277	258	244	290	-2.0	18.9	.8
CHEMISTRY	7,294	7,536	7,615	7,432	7,201	7,384	7,343	7,706	.1	4.9	.8
PHYSICS	4,423	4,379	4,327	4,079	3,967	4,254	4,300	4,565	-.5	6.2	.5
PHYSICAL SCIENCES, N.E.C.	45	38	32	40	27	34	36	35	-3.7	-2.8	-3.5
ENVIRONMENTAL SCIENCES	3,239	3,447	3,552	3,450	3,463	3,586	3,865	4,070	3.0	5.3	3.3
ATMOSPHERIC SCIENCES	176	145	128	142	135	138	129	150	-5.0	16.3	-2.3
GEOSCIENCES	2,352	2,562	2,557	2,463	2,539	2,629	2,846	3,062	3.2	7.6	3.8
OCEANOGRAPHY	363	372	421	363	330	343	396	411	1.5	3.8	1.8
ENVIRONMENTAL SCIENCES, N.E.C.	348	368	446	482	459	476	494	447	6.0	-9.5	3.6
MATHEMATICAL/COMPUTER SCIENCES	8,155	8,300	8,032	7,914	7,937	8,298	8,770	9,424	1.2	7.5	2.1
COMPUTER SCIENCE	1,391	1,517	1,503	1,531	1,712	1,979	2,355	2,637	9.2	12.0	9.6
MATHEMATICS AND APPLIED MATHEMATICS	6,004	5,988	5,747	5,560	5,374	5,405	5,474	5,875	-1.5	7.3	-.3
STATISTICS	760	795	782	823	851	914	941	912	3.6	-3.1	2.6
LIFE SCIENCES	20,037	20,928	21,768	21,642	22,436	23,397	23,465	23,974	2.7	2.2	2.6
AGRICULTURAL SCIENCES	2,825	3,104	3,166	3,203	3,419	3,380	3,462	3,503	3.4	1.2	3.1
BIOLOGICAL SCIENCES	13,922	14,525	15,091	14,827	14,959	15,484	15,608	15,768	1.9	1.0	1.8
ANATOMY	424	485	534	501	580	535	543	542	4.2	-.2	3.6
BIOCHEMISTRY	1,134	1,181	1,205	1,262	1,260	1,327	1,346	1,333	2.9	-1.0	2.3
BIOLOGY	4,131	4,326	4,431	4,239	4,151	4,328	4,174	4,172	.2	*	.1
BIOMETRY/EPIDEMIOLOGY	96	110	163	165	170	171	214	255	14.3	19.2	15.0
BIOPHYSICS	146	124	116	85	96	95	105	106	-5.3	1.0	-4.5
BOTANY	1,617	1,670	1,675	1,673	1,590	1,557	1,596	1,634	-.2	2.4	.1
CELL BIOLOGY	249	251	233	213	201	242	255	343	.4	34.5	4.7
ECOLOGY	320	404	432	456	435	468	448	427	5.8	-4.7	4.2
ENTOMOLOGY/PARASITOLOGY	518	545	558	658	686	712	643	616	3.7	-4.2	2.5
GENETICS	177	214	237	268	245	266	291	299	8.6	2.7	7.8
MICROBIOLOGY	1,323	1,405	1,532	1,381	1,381	1,416	1,546	1,577	2.6	2.0	2.5
NUTRITION	742	703	880	841	879	943	984	942	4.8	-4.3	3.5
PATHOLOGY	210	264	279	315	301	330	323	318	7.4	-1.5	6.1
PHARMACOLOGY	427	485	488	552	612	658	713	749	8.9	5.0	8.4
PHYSIOLOGY	677	736	713	681	745	781	753	747	1.8	-.8	1.4
ZOOLOGY	1,670	1,542	1,523	1,433	1,463	1,459	1,454	1,433	-2.3	-1.4	-2.2
BIOSCIENCES, N.E.C.	61	80	92	104	164	196	220	275	23.8	25.0	24.0
HEALTH SCIENCES	3,290	3,299	3,511	3,612	4,058	4,533	4,395	4,703	4.9	7.0	5.2
ANESTHESIOLOGY	49	3	2	6	16	13	6	5	-29.5	-16.7	-27.8
CANCER/ONCOLOGY	0	1	0	0	2	2	0	0	**	**	**
CARDIOLOGY	0	0	1	1	0	10	3	0	**	-100.0	**
DENTISTRY	294	288	312	286	313	332	306	329	.7	7.5	1.6
ENDOCRINOLOGY	13	14	7	9	19	18	11	13	-2.7	18.2	.0
GASTROENTEROLOGY	3	2	2	4	0	0	2	0	-6.5	-100.0	-100.0
HEMATOLOGY	0	1	5	5	12	7	6	5	**	-16.7	**
NEUROLOGY	75	61	76	64	89	83	90	94	3.1	4.4	3.3
NURSING	141	193	266	292	482	545	477	602	22.5	26.2	23.0
OBSTETRICS/GYNECOLOGY	22	14	5	6	6	3	5	5	-21.9	.0	-19.1
OPHTHALMOLOGY	12	2	2	1	3	4	6	5	-10.9	-16.7	-11.8
OTORHINOLARYNGOLOGY	15	25	23	18	14	13	10	11	-6.5	10.0	-4.3
PEDIATRICS	45	44	25	13	17	27	33	30	-5.0	-9.1	-5.6
PHARMACEUTICAL SCIENCES	688	721	746	755	847	860	840	858	3.4	2.1	3.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	199	335	293	336	363	395	509	554	16.9	8.8	15.8
PSYCHIATRY	20	23	41	48	24	8	11	39	-9.5	254.5	10.0
PULMONARY DISEASE	1	0	3	7	1	11	5	4	30.8	-20.0	21.9
RADIOLOGY	87	94	81	69	69	59	72	53	-3.1	-26.4	-6.8
SPEECH PATHOLOGY/AUDIOLOGY	1,102	983	1,029	1,078	1,042	1,253	1,175	1,296	1.1	10.3	2.3
SURGERY	83	74	60	62	49	51	48	62	-8.7	29.2	-4.1
VETERINARY SCIENCES	147	151	177	178	187	180	167	180	2.1	7.8	2.9
CLINICAL MEDICINE, N.E.C.	101	90	104	76	117	112	129	124	4.2	-3.9	3.0
HEALTH RELATED, N.E.C.	193	180	251	298	386	547	484	434	16.6	-10.3	12.3
PSYCHOLOGY	6,956	7,345	7,501	7,435	7,452	7,853	8,601	8,601	3.6	.0	3.1
SOCIAL SCIENCES	16,394	16,533	16,764	16,865	18,472	18,987	19,512	19,617	2.9	.5	2.6
AGRICULTURAL ECONOMICS	695	750	706	651	751	759	708	701	.3	-1.0	.1
ANTHROPOLOGY	1,552	1,601	1,587	1,579	1,603	1,614	1,580	1,675	.3	6.0	1.1
ECONOMICS (EXCEPT AGRICULTURAL)	3,573	3,617	3,630	3,691	3,868	4,124	4,385	4,532	3.5	3.4	3.5
GEOGRAPHY	1,088	1,065	1,100	1,081	1,080	1,146	1,193	1,195	1.5	.2	1.3
HISTORY AND PHILOSOPHY OF SCIENCE	130	144	135	130	122	132	120	136	-1.3	13.3	.6
LINGUISTICS	710	864	900	967	1,171	991	1,033	977	6.4	-5.4	4.7
POLITICAL SCIENCE	3,605	3,514	3,571	3,595	4,237	4,304	4,611	4,348	4.2	-5.7	2.7
SOCIOLOGY	2,533	2,635	2,658	2,517	2,577	2,644	2,694	2,541	1.0	-5.7	*
SOCIOLOGY/ANTHROPOLOGY	360	321	333	338	342	288	321	337	-1.9	5.0	-.9
SOCIAL SCIENCES, N.E.C.	2,148	2,022	2,144	2,316	2,721	2,985	2,867	3,175	4.9	10.7	5.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	16,852	17,680	18,229	19,265	20,039	21,114	22,434	23,796	4.9	6.1	5.1
ENGINEERING	4,520	4,868	5,171	5,360	5,657	6,223	6,957	7,714	7.5	10.9	7.9
AEROSPACE	144	128	138	140	109	183	222	203	7.5	-8.6	5.0
AGRICULTURAL	96	136	145	155	160	207	149	189	7.6	26.8	10.2
BIOMEDICAL	34	33	38	47	72	76	82	115	15.8	40.2	19.0
CHEMICAL	719	734	751	715	821	877	997	1,193	5.6	19.7	7.5
CIVIL	754	793	820	859	937	1,011	1,249	1,202	8.8	-3.8	6.9
ELECTRICAL	825	908	1,063	1,182	1,222	1,369	1,593	1,690	11.6	6.1	10.8
ENGINEERING SCIENCE	82	86	115	118	68	109	107	128	4.5	19.6	6.6
INDUSTRIAL	404	465	422	503	487	457	354	431	-2.2	21.8	.9
MECHANICAL	555	517	625	688	836	830	968	1,097	9.7	13.3	10.2
METALLURGICAL/MATERIALS	304	363	375	329	332	415	453	509	6.9	12.4	7.6
MINING	65	84	63	44	33	57	117	107	10.3	-8.5	7.4
NUCLEAR	194	226	223	246	228	251	243	257	3.8	5.8	4.1
PETROLEUM	118	169	142	128	123	123	134	187	2.1	39.6	6.8
ENGINEERING, N.E.C.	226	226	251	206	229	258	289	406	4.2	40.5	8.7
PHYSICAL SCIENCES	1,185	1,327	1,346	1,348	1,478	1,308	1,418	1,744	3.0	23.0	5.7
ASTRONOMY	49	34	43	29	21	34	32	45	-6.9	40.6	-1.2
CHEMISTRY	741	812	856	866	967	846	956	1,202	4.3	25.7	7.2
PHYSICS	390	473	446	449	485	425	429	494	1.6	15.2	3.4
PHYSICAL SCIENCES, N.E.C.	5	8	1	4	5	3	1	3	-23.5	200.0	-7.0
ENVIRONMENTAL SCIENCES	741	732	750	838	821	996	1,080	1,167	6.5	8.1	6.7
ATMOSPHERIC SCIENCES	48	50	35	35	36	35	46	46	-.7	.0	-.6
GEOSCIENCES	488	501	552	605	588	734	780	825	8.1	5.8	7.8
OCEANOGRAPHY	112	116	88	102	130	140	158	172	5.9	8.9	6.3
ENVIRONMENTAL SCIENCES, N.E.C.	93	65	75	96	67	87	96	124	.5	29.2	4.2
MATHEMATICAL/COMPUTER SCIENCES	801	842	822	844	1,041	1,117	1,124	1,206	5.8	7.3	6.0
COMPUTER SCIENCE	331	247	295	362	482	612	611	700	10.8	14.6	11.3
MATHEMATICS AND APPLIED MATHEMATICS	359	422	394	366	419	370	401	369	1.9	-8.0	.4
STATISTICS	111	153	133	116	140	135	112	137	.1	22.3	3.1
LIFE SCIENCES	4,776	5,208	5,352	5,703	5,918	5,782	6,152	6,408	4.3	4.2	4.3
AGRICULTURAL SCIENCES	1,618	1,767	1,826	1,796	1,805	2,047	2,143	2,049	4.8	-4.4	3.4
BIOLOGICAL SCIENCES	2,285	2,519	2,518	2,741	2,871	2,725	2,743	3,061	3.1	11.6	4.3
ANATOMY	40	41	47	62	55	57	44	36	1.6	-18.2	-1.5
BIOCHEMISTRY	255	278	244	250	236	243	254	281	-.1	10.6	1.4
BIOLOGY	394	406	430	401	380	305	291	330	-4.9	13.4	-2.5
BIOMETRY/EPIDEMIOLOGY	36	58	47	55	87	91	103	96	19.1	-6.8	15.0
BIOPHYSICS	25	15	35	38	20	42	21	22	-2.9	4.8	-1.8
BOTANY	327	379	384	418	470	457	445	482	5.3	8.3	5.7
CELL BIOLOGY	13	22	17	25	33	26	28	46	13.6	64.3	19.1
ECOLOGY	43	41	49	62	54	67	68	101	7.9	48.5	13.5
ENTOMOLOGY/PARASITOLOGY	217	211	211	238	283	247	297	276	5.4	-7.1	3.5
GENETICS	45	57	84	61	46	80	59	85	4.6	44.1	9.5
MICROBIOLOGY	184	206	191	242	212	235	238	312	4.4	31.1	7.8
NUTRITION	282	367	363	417	522	450	393	450	5.7	14.5	6.9
PATHOLOGY	80	102	75	84	122	100	137	137	9.4	.0	8.0
PHARMACOLOGY	106	80	126	153	136	125	148	170	5.7	14.9	7.0
PHYSIOLOGY	101	97	95	113	93	81	108	91	1.1	-15.7	-1.5
ZOOLOGY	131	147	105	111	75	73	74	103	-9.1	39.2	-3.4
BIOSCIENCES, N.E.C.	6	12	9	11	47	46	35	43	34.2	22.9	32.5
HEALTH SCIENCES	873	922	1,008	1,166	1,242	1,210	1,266	1,298	6.4	2.5	5.8
ANESTHESIOLOGY	1	0	1	0	0	0	5	2	30.8	-60.0	10.4
CANCER/ONCOLOGY	1	1	2	0	0	0	0	1	-100.0	**	.0
CARDIOLOGY	3	0	0	0	0	3	0	0	-100.0	**	-100.0
DENTISTRY	52	106	70	79	106	88	62	70	3.0	12.9	4.3
ENDOCRINOLOGY	1	0	1	0	6	5	5	11	30.8	120.0	40.9
GASTROENTEROLOGY	0	0	1	0	0	0	1	6	**	500.0	**
HEMATOLOGY	0	0	0	1	0	1	0	0	**	**	**
NEUROLOGY	18	18	32	34	16	24	16	24	-1.9	50.0	4.2
NURSING	40	62	141	203	240	180	134	179	22.3	33.6	23.9
OBSTETRICS/GYNECOLOGY	3	10	1	0	7	0	0	3	-100.0	**	.0
OPHTHALMOLOGY	3	0	1	0	0	1	2	1	-6.5	-50.0	-14.5
OTORHINOLARYNGOLOGY	0	5	4	6	2	0	0	0	**	**	**
PEDIATRICS	4	7	6	3	5	11	15	19	24.6	26.7	24.9
PHARMACEUTICAL SCIENCES	149	156	150	189	165	180	226	234	7.2	3.5	6.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	261	219	210	265	246	316	297	306	2.2	3.0	2.3
PSYCHIATRY	8	12	5	1	17	21	11	3	5.5	-72.7	-13.1
PULMONARY DISEASE	1	0	0	3	0	2	1	2	.0	100.0	10.4
RADIOLOGY	17	20	21	16	20	19	15	18	-2.1	20.0	.8
SPEECH PATHOLOGY/AUDIOLOGY	112	85	114	161	153	134	210	145	11.0	-31.0	3.8
SURGERY	4	11	7	9	6	17	8	15	12.2	87.5	20.8
VETERINARY SCIENCES	67	88	97	89	104	85	67	67	.0	.0	.0
CLINICAL MEDICINE, N.E.C.	27	20	20	10	16	24	20	28	-4.9	40.0	.5
HEALTH RELATED, N.E.C.	101	102	124	97	133	99	171	164	9.2	-4.1	7.2
PSYCHOLOGY	1,186	1,274	1,292	1,602	1,351	1,437	1,505	1,379	4.0	-8.4	2.2
SOCIAL SCIENCES	3,643	3,429	3,496	3,570	3,773	4,051	4,198	4,178	2.4	-.5	2.0
AGRICULTURAL ECONOMICS	247	229	320	323	368	373	358	370	6.4	3.4	5.9
ANTHROPOLOGY	209	216	244	194	210	192	182	137	-2.3	-24.7	-5.9
ECONOMICS (EXCEPT AGRICULTURAL)	820	987	916	941	995	982	1,029	934	3.9	-9.2	1.9
GEOGRAPHY	127	169	158	147	137	203	168	149	4.8	-11.3	2.3
HISTORY AND PHILOSOPHY OF SCIENCE	25	22	23	19	12	11	20	16	-3.7	-20.0	-6.2
LINGUISTICS	136	111	122	135	224	159	202	192	6.8	-5.0	5.0
POLITICAL SCIENCE	684	792	702	738	713	1,056	1,057	1,377	7.5	30.3	10.5
SOCIOLOGY	464	395	423	360	391	365	332	393	-5.4	18.4	-2.3
SOCIOLOGY/ANTHROPOLOGY	38	66	30	29	46	32	47	46	3.6	-2.1	2.8
SOCIAL SCIENCES, N.E.C.	893	442	558	684	677	678	803	564	-1.8	-29.8	-6.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. — SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	68,137	68,598	68,442	66,347	67,686	69,875	70,738	72,917	.6	3.1	1.0
ENGINEERING	12,040	10,565	10,568	10,771	11,591	12,167	13,051	15,096	1.4	15.7	3.3
AEROSPACE	170	171	167	164	189	165	187	210	1.6	12.3	3.1
AGRICULTURAL	66	100	114	94	100	77	111	125	9.1	12.6	9.6
BIOMEDICAL	281	267	274	279	252	230	287	301	.4	4.9	1.0
CHEMICAL	685	692	739	767	739	853	946	1,135	5.5	20.0	7.5
CIVIL	3,018	2,433	2,759	2,979	3,161	3,075	3,587	4,139	2.9	15.4	4.6
ELECTRICAL	2,615	2,464	2,561	2,403	2,616	2,871	2,800	3,397	1.1	21.3	3.8
ENGINEERING SCIENCE	171	152	122	134	133	139	152	172	-1.9	13.2	.1
INDUSTRIAL	2,184	1,581	1,488	1,386	1,730	1,783	1,644	1,771	-4.6	7.7	-3.0
MECHANICAL	1,431	1,318	1,186	1,235	1,326	1,515	1,772	2,188	3.6	23.5	6.3
METALLURGICAL/MATERIALS	201	190	220	230	265	197	251	256	3.8	2.0	3.5
MINING	73	68	42	41	32	31	28	56	-14.8	100.0	-3.7
NUCLEAR	314	274	227	258	198	196	195	205	-7.6	5.1	-5.9
PETROLEUM	34	52	26	79	56	49	83	109	16.0	31.3	18.1
ENGINEERING, N.E.C.	797	803	647	722	794	986	1,008	1,032	4.0	2.4	3.8
PHYSICAL SCIENCES	1,844	1,693	1,604	1,425	1,420	1,366	1,364	1,369	-4.9	.4	-4.2
ASTRONOMY	71	62	53	53	53	37	35	37	-11.1	5.7	-8.9
CHEMISTRY	874	799	740	732	701	680	623	595	-5.5	-4.5	-5.3
PHYSICS	876	814	787	632	655	631	691	727	-3.9	5.2	-2.6
PHYSICAL SCIENCES, N.E.C.	23	18	24	8	11	9	15	10	-6.9	-33.3	-11.2
ENVIRONMENTAL SCIENCES	2,316	2,465	2,520	2,415	2,300	2,170	2,438	2,706	.9	11.0	2.2
ATMOSPHERIC SCIENCES	124	100	104	105	77	87	111	124	-1.8	11.7	.0
GEOSCIENCES	1,547	1,541	1,556	1,623	1,535	1,487	1,662	1,939	1.2	16.7	3.3
OCEANOGRAPHY	243	322	333	299	255	315	341	284	5.8	-16.7	2.3
ENVIRONMENTAL SCIENCES, N.E.C.	402	502	527	388	433	281	324	359	-3.5	10.8	-1.6
MATHEMATICAL/COMPUTER SCIENCES	3,733	3,961	3,687	3,464	3,572	4,121	4,517	5,685	3.2	25.9	6.2
COMPUTER SCIENCE	1,621	1,876	1,782	1,874	2,151	2,490	2,661	3,729	8.6	40.1	12.6
MATHEMATICS AND APPLIED MATHEMATICS	1,731	1,741	1,556	1,316	1,164	1,320	1,475	1,564	-2.6	6.0	-1.4
STATISTICS	381	344	349	274	257	311	381	392	.0	2.9	.4
LIFE SCIENCES	17,234	18,104	18,367	18,343	17,607	17,771	17,846	17,729	.6	-.7	.4
AGRICULTURAL SCIENCES	2,432	2,557	2,653	2,504	2,407	2,447	2,379	2,455	-.4	3.2	.1
BIOLOGICAL SCIENCES	8,637	8,623	8,486	8,071	7,031	6,741	6,453	6,289	-4.7	-2.5	-4.4
ANATOMY	258	289	248	233	176	179	161	183	-7.6	13.7	-4.8
BIOCHEMISTRY	430	377	387	465	337	320	296	321	-6.0	8.4	-4.1
BIOLOGY	2,891	2,783	2,505	2,150	2,008	1,823	1,695	1,626	-8.5	-4.1	-7.9
BIOMETRY/EPIDEMIOLOGY	312	306	382	383	360	389	267	226	-2.6	-15.4	-4.5
BIOPHYSICS	83	89	70	85	73	69	110	86	4.8	-21.8	.5
BOTANY	607	681	748	638	527	496	423	427	-5.8	.9	-4.9
CELL BIOLOGY	63	45	26	30	30	39	35	35	-9.3	.0	-8.1
ECOLOGY	230	178	282	223	151	202	230	202	.0	-12.2	-1.8
ENTOMOLOGY/PARASITOLOGY	305	341	311	313	223	216	200	183	-6.8	-8.5	-7.0
GENETICS	138	162	165	138	130	84	110	115	-3.7	4.5	-2.6
MICROBIOLOGY	756	737	735	672	595	633	508	525	-6.4	3.3	-5.1
NUTRITION	734	852	912	1,021	953	902	1,144	1,105	7.7	-3.4	6.0
PATHOLOGY	267	279	333	362	334	290	258	242	-.6	-6.2	-1.4
PHARMACOLOGY	232	268	298	259	231	283	205	227	-2.0	10.7	-.3
PHYSIOLOGY	564	493	451	447	404	373	409	431	-5.2	5.4	-3.8
ZOOLOGY	744	703	574	589	417	363	345	296	-12.0	-14.2	-12.3
BIOSCIENCES, N.E.C.	23	38	59	63	82	80	57	59	16.3	3.5	14.4
HEALTH SCIENCES	6,165	6,924	7,228	7,768	8,169	8,583	9,014	8,985	6.5	-.3	5.5
ANESTHESIOLOGY	0	0	0	1	2	0	5	14	**	180.0	**
CANCER/ONCOLOGY	0	0	0	0	0	0	44	0	**	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0	0	**	**	**
DENTISTRY	425	382	418	432	499	438	417	328	-.3	-21.3	-3.6
ENDOCRINOLOGY	11	7	13	12	5	5	7	5	-7.3	-28.6	-10.7
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	3	2	2	2	2	0	0	0	-100.0	**	-100.0
NEUROLOGY	20	30	28	34	18	18	14	14	-5.8	.0	-5.0
NURSING	668	889	1,207	1,403	1,779	1,720	2,294	2,245	22.8	-2.1	18.9
OBSTETRICS/GYNECOLOGY	5	5	2	5	2	0	3	3	-8.2	.0	-7.0
OPHTHALMOLOGY	0	0	0	0	0	0	0	2	**	**	**
OTORHINOLARYNGOLOGY	7	8	15	12	0	1	0	0	-100.0	**	-100.0
PEDIATRICS	45	30	38	37	39	33	23	55	-10.6	139.1	2.9
PHARMACEUTICAL SCIENCES	305	216	330	310	293	306	263	313	-2.4	19.0	.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,135	1,356	1,333	1,590	1,742	1,838	1,866	2,000	8.6	7.2	8.4
PSYCHIATRY	55	50	40	38	28	16	18	16	-17.0	-11.1	-16.2
PULMONARY DISEASE	0	0	0	0	0	0	0	2	**	**	**
RADIOLOGY	73	48	70	58	63	81	76	54	.7	-28.9	-4.2
SPEECH PATHOLOGY/AUDIOLOGY	2,566	2,853	2,617	2,628	2,438	2,616	2,456	2,461	-.7	.2	-.6
SURGERY	2	2	4	6	4	4	2	6	.0	200.0	17.0
VETERINARY SCIENCES	74	96	80	84	80	45	52	65	-5.7	25.0	-1.8
CLINICAL MEDICINE, N.E.C.	44	50	61	63	52	57	44	61	.0	38.6	4.8
HEALTH RELATED, N.E.C.	727	900	970	1,053	1,123	1,405	1,430	1,341	11.9	-6.2	9.1
PSYCHOLOGY	7,244	8,761	8,515	7,725	8,479	9,097	8,536	8,875	2.8	4.0	2.9
SOCIAL SCIENCES	23,726	23,049	23,181	22,204	22,717	23,183	22,986	21,457	-.5	-6.7	-1.4
AGRICULTURAL ECONOMICS	465	507	405	476	366	443	470	470	.2	.0	.2
ANTHROPOLOGY	2,471	2,493	2,545	2,243	2,187	2,239	2,075	1,883	-2.9	-9.3	-3.8
ECONOMICS (EXCEPT AGRICULTURAL)	2,972	2,652	2,913	3,019	2,737	3,270	3,239	3,386	1.4	4.5	1.9
GEOGRAPHY	813	836	691	698	580	619	632	574	-4.1	-9.2	-4.9
HISTORY AND PHILOSOPHY OF SCIENCE	89	86	85	84	85	79	70	60	-3.9	-14.3	-5.5
LINGUISTICS	974	916	655	576	625	866	777	725	-3.7	-6.7	-4.1
POLITICAL SCIENCE	7,182	6,254	6,228	5,926	6,500	5,790	6,196	5,581	-2.4	-9.9	-3.5
SOCIOLOGY	2,185	2,289	2,043	1,501	1,700	1,848	1,610	1,409	-5.0	-12.5	-6.1
SOCIOLOGY/ANTHROPOLOGY	482	181	274	195	148	179	125	197	-20.1	57.6	-12.0
SOCIAL SCIENCES, N.E.C.	6,093	6,835	7,342	7,486	7,789	7,850	7,792	7,172	4.2	-8.0	2.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	154,024	156,251	157,768	155,983	160,065	165,198	167,244	170,523	1.4	2.0	1.5
FEDERAL, TOTAL	33,909	34,322	35,028	35,305	36,856	36,564	35,149	32,883	.6	-6.4	-.4
DEPT OF DEFENSE	3,577	3,443	3,527	0	3,526	3,702	3,994	4,322	1.9	8.2	2.7
DEPT OF HHS, TOTAL	14,402	14,126	14,366	14,515	15,358	12,783	11,966	10,517	-3.0	-12.1	-4.4
NIH	7,769	7,253	6,869	6,602	7,287	7,227	7,202	6,781	-1.3	-5.8	-1.9
OTHER HHS	6,633	6,873	7,497	7,913	8,071	5,556	4,764	3,736	-5.4	-21.6	-7.9
NSF	5,381	5,454	5,603	5,584	5,810	5,819	5,718	5,816	1.0	1.7	1.1
ALL OTHER FEDERAL	10,549	11,299	11,532	15,206	12,162	14,260	13,471	12,228	4.2	-9.2	2.1
INSTITUTIONAL SUPPORT	59,347	60,854	61,624	60,787	62,821	65,592	67,299	70,137	2.1	4.2	2.4
OTHER OUTSIDE SUPPORT, TOTAL	11,452	11,918	12,136	13,061	13,811	14,138	15,379	16,214	5.0	5.4	5.1
ALL OTHER U.S.	8,071	7,887	7,733	13,061	8,707	8,924	9,678	10,296	3.1	6.4	3.5
FOREIGN	3,381	4,031	4,403	0	5,104	5,214	5,701	5,918	9.1	3.8	8.3
SELF-SUPPORT	49,316	49,157	48,980	46,830	46,577	48,904	49,417	51,289	*	3.8	.6
ENGINEERING:											
TOTAL, ALL SOURCES	25,480	25,056	25,413	25,332	26,911	29,104	31,151	34,077	3.4	9.4	4.2
FEDERAL, TOTAL	6,821	6,794	6,950	6,853	6,964	7,268	7,159	7,343	.8	2.6	1.1
DEPT OF DEFENSE	2,009	1,841	1,892	0	1,848	1,973	2,135	2,455	1.0	15.0	2.9
DEPT OF HHS, TOTAL	581	576	567	608	577	336	289	251	-11.0	-13.1	-11.3
NIH	360	308	250	265	223	235	214	201	-8.3	-6.1	-8.0
OTHER HHS	221	268	317	343	354	101	75	50	-16.5	-33.3	-19.1
NSF	1,496	1,447	1,457	1,339	1,386	1,354	1,301	1,443	-2.3	10.9	-.5
ALL OTHER FEDERAL	2,735	2,930	3,034	4,906	3,153	3,605	3,434	3,194	3.9	-7.0	2.2
INSTITUTIONAL SUPPORT	7,541	7,623	7,766	7,663	8,379	9,226	10,302	11,085	5.3	7.6	5.7
OTHER OUTSIDE SUPPORT, TOTAL	2,617	2,767	2,859	3,111	3,316	3,703	4,137	4,717	7.9	14.0	8.8
ALL OTHER U.S.	1,951	1,932	1,880	3,111	2,173	2,510	2,918	3,292	6.9	12.8	7.8
FOREIGN	666	835	979	0	1,143	1,193	1,219	1,425	10.6	16.9	11.5
SELF-SUPPORT	8,501	7,872	7,838	7,705	8,252	8,907	9,553	10,932	2.0	14.4	3.7
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	15,058	15,292	15,393	15,205	15,444	15,798	16,053	16,756	1.1	4.4	1.5
FEDERAL, TOTAL	4,006	4,164	4,296	4,474	4,834	4,986	5,258	5,046	4.6	-4.0	3.4
DEPT OF DEFENSE	332	321	394	0	428	432	498	459	7.0	-7.8	4.7
DEPT OF HHS, TOTAL	836	906	883	880	1,057	1,083	1,060	991	4.0	-6.5	2.5
NIH	782	824	781	771	926	1,023	967	912	3.6	-5.7	2.2
OTHER HHS	54	82	102	109	131	60	93	79	9.5	-15.1	5.6
NSF	1,612	1,710	1,725	1,763	1,884	1,854	1,935	2,017	3.1	4.2	3.3
ALL OTHER FEDERAL	1,226	1,227	1,294	1,831	1,465	1,617	1,765	1,579	6.3	-10.5	3.7
INSTITUTIONAL SUPPORT	8,846	8,914	9,015	8,725	8,483	8,862	8,753	9,391	-.2	7.3	.9
OTHER OUTSIDE SUPPORT, TOTAL	775	866	880	875	1,027	881	985	1,277	4.1	29.6	7.4
ALL OTHER U.S.	604	621	648	875	774	641	727	959	3.1	31.9	6.8
FOREIGN	171	245	232	0	253	240	258	318	7.1	23.3	9.3
SELF-SUPPORT	1,431	1,348	1,202	1,131	1,100	1,069	1,057	1,042	-4.9	-1.4	-4.4
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	7,344	7,865	8,179	8,095	8,410	8,405	8,568	8,869	2.6	3.5	2.7
FEDERAL, TOTAL	2,083	2,258	2,399	2,436	2,804	2,672	2,375	2,193	2.2	-7.7	.7
DEPT OF DEFENSE	305	298	271	0	283	250	262	259	-2.5	-1.1	-2.3
DEPT OF HHS, TOTAL	103	145	205	247	246	110	91	60	-2.0	-34.1	-7.4
NIH	21	25	45	29	29	29	14	27	-6.5	92.9	3.7
OTHER HHS	82	120	160	218	217	81	77	33	-1.0	-57.1	-12.2
NSF	820	858	857	865	916	873	893	866	1.4	-3.0	.8
ALL OTHER FEDERAL	855	957	1,066	1,324	1,359	1,439	1,129	1,008	4.7	-10.7	2.4
INSTITUTIONAL SUPPORT	2,732	2,898	2,964	2,896	2,913	3,034	3,217	3,380	2.8	5.1	3.1
OTHER OUTSIDE SUPPORT, TOTAL	553	577	583	697	659	789	866	913	7.8	5.4	7.4
ALL OTHER U.S.	354	336	303	697	407	513	570	612	8.3	7.4	8.1
FOREIGN	199	241	280	0	252	276	296	301	6.8	1.7	6.1
SELF-SUPPORT	1,976	2,132	2,233	2,066	2,034	1,910	2,110	2,383	1.1	12.9	2.7
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	10,780	11,041	10,582	10,438	10,716	11,378	11,824	13,320	1.6	12.7	3.1
FEDERAL, TOTAL	884	839	859	904	1,020	1,060	1,095	1,206	3.6	10.1	4.5
DEPT OF DEFENSE	427	409	345	0	398	481	521	589	3.4	13.1	4.7
DEPT OF HHS, TOTAL	118	124	117	125	106	83	56	42	-11.7	-25.0	-13.7
NIH	100	106	101	95	80	69	46	38	-12.1	-17.4	-12.9
OTHER HHS	18	18	16	30	26	14	10	4	-9.3	-60.0	-19.3
NSF	216	177	247	242	304	326	340	324	7.9	-4.7	6.0
ALL OTHER FEDERAL	123	129	150	537	212	170	178	251	6.4	41.0	10.7
INSTITUTIONAL SUPPORT	6,410	6,568	6,337	6,211	6,301	6,564	6,905	7,442	1.2	7.8	2.2
OTHER OUTSIDE SUPPORT, TOTAL	415	445	399	433	660	633	643	723	7.6	12.4	8.3
ALL OTHER U.S.	213	213	220	433	392	343	358	428	9.0	19.6	10.5
FOREIGN	202	232	179	0	268	290	285	295	5.9	3.5	5.4
SELF-SUPPORT	3,071	3,189	2,987	2,890	2,735	3,121	3,181	3,949	.6	24.1	3.7

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TABLE C-19. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	8,272	8,810	9,066	8,998	9,082	9,370	9,417	9,422	2.2	0.1	1.9
FEDERAL, TOTAL	1,599	1,578	1,622	1,703	1,697	1,730	1,663	1,622	.7	-2.5	.2
DEPT OF DEFENSE	15	22	15	0	16	10	11	9	-5.0	-18.2	-7.0
DEPT OF HHS, TOTAL	103	83	69	82	104	123	59	38	-8.9	-35.6	-13.3
NIH	75	58	50	42	69	109	53	33	-5.6	-37.7	-11.1
OTHER HHS	28	25	19	40	35	14	6	5	-22.6	-16.7	-21.8
NSF	129	96	70	77	66	73	63	61	-11.3	-3.2	-10.1
ALL OTHER FEDERAL	1,352	1,377	1,468	1,544	1,511	1,524	1,530	1,514	2.1	-1.0	1.6
INSTITUTIONAL SUPPORT	2,725	3,010	3,062	3,091	3,303	3,266	3,332	3,390	3.4	1.7	3.2
OTHER OUTSIDE SUPPORT, TOTAL	1,557	1,708	1,780	1,747	1,734	1,982	2,079	1,992	4.9	-4.2	3.6
ALL OTHER U.S.	776	778	857	1,747	764	900	917	860	2.8	-6.2	1.5
FOREIGN	781	930	923	0	970	1,082	1,162	1,132	6.8	-2.6	5.4
SELF-SUPPORT	2,391	2,514	2,602	2,457	2,348	2,398	2,343	2,418	-.3	3.2	.2
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	26,443	26,791	27,247	26,867	26,687	26,741	26,487	26,090	*	-1.5	-.2
FEDERAL, TOTAL	6,609	6,549	6,681	6,766	7,249	7,137	6,937	6,593	.8	-5.0	*
DEPT OF DEFENSE	100	106	92	0	95	119	85	98	-2.7	15.3	-.3
DEPT OF HHS, TOTAL	4,431	4,095	4,193	4,240	4,586	4,270	4,327	4,024	-.4	-7.0	-1.4
NIH	4,031	3,783	3,853	3,898	4,204	3,994	4,086	3,819	.2	-6.5	-.8
OTHER HHS	400	312	340	350	382	276	241	205	-8.1	-14.9	-9.1
NSF	648	738	817	850	820	862	782	774	3.2	-1.0	2.6
ALL OTHER FEDERAL	1,430	1,610	1,579	1,668	1,748	1,886	1,743	1,697	3.4	-2.6	2.5
INSTITUTIONAL SUPPORT	11,246	11,614	12,031	11,821	11,348	12,329	12,303	12,319	1.5	.1	1.3
OTHER OUTSIDE SUPPORT, TOTAL	1,807	1,975	1,963	2,117	2,301	2,061	2,107	2,361	2.6	12.1	3.9
ALL OTHER U.S.	1,305	1,349	1,264	2,117	1,409	1,285	1,229	1,491	-1.0	21.3	1.9
FOREIGN	502	626	699	0	892	776	878	870	9.8	-.9	8.2
SELF-SUPPORT	6,781	6,653	6,572	6,163	5,289	5,214	5,140	4,817	-4.5	-6.3	-4.8
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	12,792	13,762	14,728	15,350	15,995	16,583	16,267	15,716	4.1	-3.4	3.0
FEDERAL, TOTAL	4,873	5,145	5,571	5,706	5,933	6,055	5,648	4,707	2.5	-16.7	-.5
DEPT OF DEFENSE	112	119	156	0	128	127	148	168	4.8	13.5	6.0
DEPT OF HHS, TOTAL	4,282	4,505	4,797	4,976	5,255	4,412	4,041	3,561	-1.0	-11.9	-2.6
NIH	938	861	670	691	696	699	828	988	-2.1	19.3	.7
OTHER HHS	3,344	3,644	4,127	4,285	4,559	3,713	3,213	2,573	-.7	-19.9	-3.7
NSF	18	32	38	42	36	33	22	30	3.4	36.4	7.6
ALL OTHER FEDERAL	461	489	580	688	514	1,483	1,437	948	20.9	-34.0	10.8
INSTITUTIONAL SUPPORT	2,604	2,757	2,883	2,869	3,299	3,502	3,339	3,661	4.2	9.6	5.0
OTHER OUTSIDE SUPPORT, TOTAL	693	709	746	845	897	834	929	909	5.0	-2.2	4.0
ALL OTHER U.S.	480	491	500	845	614	567	687	661	6.2	-3.8	4.7
FOREIGN	213	218	246	0	283	267	242	248	2.2	2.5	2.2
SELF-SUPPORT	4,622	5,151	5,528	5,930	5,866	6,192	6,351	6,439	5.4	1.4	4.9
PSYCHOLOGY:											
TOTAL, ALL SOURCES	13,428	13,963	13,540	12,939	12,805	13,081	13,034	12,978	-.5	-.4	-.5
FEDERAL, TOTAL	2,994	2,823	2,698	2,531	2,491	2,096	1,922	1,613	-7.1	-16.1	-8.5
DEPT OF DEFENSE	95	110	112	0	114	104	114	92	3.1	-19.3	-.5
DEPT OF HHS, TOTAL	2,165	2,072	1,948	1,832	1,831	1,348	1,134	946	-10.2	-16.6	-11.2
NIH	1,017	890	842	617	754	701	632	525	-7.6	-16.9	-9.0
OTHER HHS	1,148	1,182	1,106	1,215	1,077	647	502	421	-12.9	-16.1	-13.4
NSF	155	113	128	137	161	192	154	131	-.1	-14.9	-2.4
ALL OTHER FEDERAL	579	528	510	562	385	452	520	444	-1.8	-14.6	-3.7
INSTITUTIONAL SUPPORT	5,318	5,543	5,469	5,435	5,332	5,640	5,843	5,796	1.6	-.8	1.2
OTHER OUTSIDE SUPPORT, TOTAL	878	972	979	1,173	1,050	1,078	1,059	966	3.2	-8.8	1.4
ALL OTHER U.S.	823	915	901	1,173	983	1,029	1,014	925	3.5	-8.8	1.7
FOREIGN	55	57	78	0	67	49	45	41	-3.3	-8.9	-4.1
SELF-SUPPORT	4,238	4,625	4,394	3,800	3,932	4,267	4,210	4,603	-.1	9.3	1.2
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	34,427	33,671	33,620	32,759	34,015	34,732	34,443	33,295	*	-3.3	-.5
FEDERAL, TOTAL	4,040	4,172	3,952	3,932	3,864	3,560	3,092	2,560	-4.4	-17.2	-6.3
DEPT OF DEFENSE	182	217	250	0	216	206	220	193	3.2	-12.3	.8
DEPT OF HHS, TOTAL	1,783	1,620	1,587	1,517	1,596	1,018	909	604	-10.6	-33.6	-14.3
NIH	445	398	277	194	306	368	362	238	-3.4	-34.3	-8.6
OTHER HHS	1,338	1,222	1,310	1,323	1,290	650	547	366	-13.9	-33.1	-16.9
NSF	287	283	264	269	237	252	228	170	-3.8	-25.4	-7.2
ALL OTHER FEDERAL	1,788	2,052	1,851	2,146	1,815	2,084	1,735	1,593	-.5	-8.2	-1.6
INSTITUTIONAL SUPPORT	11,925	11,927	12,097	12,076	12,963	13,169	13,305	13,673	1.8	2.8	2.0
OTHER OUTSIDE SUPPORT, TOTAL	2,157	1,899	1,947	2,063	2,167	2,177	2,574	2,356	3.0	-8.5	1.3
ALL OTHER U.S.	1,565	1,252	1,160	2,063	1,191	1,136	1,258	1,068	-3.6	-15.1	-5.3
FOREIGN	592	647	787	0	976	1,041	1,316	1,288	14.2	-2.1	11.7
SELF-SUPPORT	16,305	15,673	15,624	14,688	15,021	15,826	15,472	14,706	-.9	-5.0	-1.5

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:											
TOTAL, ALL SOURCES	56,297	57,838	59,685	60,625	63,344	65,488	67,127	67,153	3.0	*	2.6
FEDERAL, TOTAL	14,340	14,272	15,350	15,964	16,015	16,391	15,756	14,602	1.6	-7.3	.3
DEPT OF DEFENSE	1,507	1,355	1,466	0	1,472	1,537	1,653	1,632	1.6	-1.3	1.1
DEPT OF HHS, TOTAL	6,467	6,240	6,715	7,241	7,291	6,606	6,059	5,661	-1.1	-6.6	-1.9
NIH	4,443	4,107	4,059	4,274	4,373	4,345	4,088	4,213	-1.4	3.1	-.8
OTHER HHS	2,022	2,133	2,656	2,967	2,918	2,261	1,971	1,448	-.4	-26.5	-4.7
NSF	3,415	3,508	3,420	3,425	3,465	3,426	3,367	3,403	-.2	1.1	-.1
ALL OTHER FEDERAL	2,951	3,169	3,749	5,298	3,787	4,822	4,677	3,906	8.0	-16.5	4.1
INSTITUTIONAL SUPPORT	17,736	18,363	18,780	18,940	19,992	21,150	22,995	23,341	4.4	1.5	4.0
OTHER OUTSIDE SUPPORT, TOTAL	5,400	5,762	6,093	6,204	6,228	6,976	7,055	7,582	4.6	7.5	5.0
ALL OTHER U.S.	3,369	3,486	3,590	6,204	3,786	4,160	4,188	4,663	3.7	11.3	4.8
FOREIGN	2,031	2,276	2,503	0	2,442	2,816	2,867	2,919	5.9	1.8	5.3
SELF-SUPPORT	18,821	19,441	19,462	19,517	21,109	20,971	21,321	21,628	2.1	1.4	2.0
ENGINEERING:											
TOTAL, ALL SOURCES	11,603	11,378	11,595	12,058	12,789	13,196	14,052	15,029	3.2	7.0	3.8
FEDERAL, TOTAL	3,437	3,742	3,751	3,758	3,907	3,951	3,878	3,757	2.0	-3.1	1.3
DEPT OF DEFENSE	860	823	912	0	817	961	1,014	974	2.8	-3.9	1.8
DEPT OF HHS, TOTAL	413	435	375	397	467	326	257	250	-7.6	-2.7	-6.9
NIH	357	378	303	283	290	273	233	202	-6.9	-13.3	-7.8
OTHER HHS	56	57	72	114	177	53	24	48	-13.2	100.0	-2.2
NSF	1,079	1,119	1,052	1,003	1,027	1,057	1,068	1,128	-.2	5.6	.6
ALL OTHER FEDERAL	1,085	1,365	1,412	2,358	1,596	1,607	1,539	1,405	6.0	-8.7	3.8
INSTITUTIONAL SUPPORT	2,724	2,842	2,802	2,985	3,202	3,465	3,856	4,111	6.0	6.6	6.1
OTHER OUTSIDE SUPPORT, TOTAL	1,903	2,101	2,312	2,249	2,341	2,520	2,820	2,997	6.8	6.3	6.7
ALL OTHER U.S.	1,083	1,209	1,362	2,249	1,551	1,687	1,870	1,987	9.5	6.3	9.1
FOREIGN	820	892	950	0	790	833	950	1,010	2.5	6.3	3.0
SELF-SUPPORT	3,539	2,693	2,730	3,066	3,339	3,260	3,498	4,164	-.2	19.0	2.4
PHYSICAL SCIENCES:											
TOTAL, ALL SOURCES	6,216	6,290	6,348	6,280	6,337	6,461	6,550	6,609	.9	.9	.9
FEDERAL, TOTAL	2,202	2,199	2,276	2,465	2,577	2,669	2,640	2,610	3.1	-1.1	2.5
DEPT OF DEFENSE	205	171	156	0	212	229	255	248	3.7	-2.7	2.8
DEPT OF HHS, TOTAL	440	448	446	527	527	544	455	499	.6	9.7	1.8
NIH	424	419	406	505	487	513	441	496	.7	12.5	2.3
OTHER HHS	16	29	40	22	40	31	14	3	-2.2	-78.6	-21.3
NSF	992	1,046	1,036	1,054	1,072	1,024	1,094	1,090	1.6	-.4	1.4
ALL OTHER FEDERAL	565	534	638	884	766	872	836	773	6.7	-7.5	4.6
INSTITUTIONAL SUPPORT	3,191	3,285	3,204	3,048	2,989	3,068	3,170	3,205	-.1	1.1	.1
OTHER OUTSIDE SUPPORT, TOTAL	410	461	466	473	451	427	433	467	.9	7.9	1.9
ALL OTHER U.S.	305	328	305	473	310	308	326	340	1.1	4.3	1.6
FOREIGN	105	133	161	0	141	119	107	127	.3	18.7	2.8
SELF-SUPPORT	413	345	402	294	320	297	307	327	-4.8	6.5	-3.3
ENVIRONMENTAL SCIENCES:											
TOTAL, ALL SOURCES	1,645	1,663	1,668	1,735	1,627	1,707	1,764	1,878	1.2	6.5	1.9
FEDERAL, TOTAL	610	626	626	691	649	688	574	611	-1.0	6.4	*
DEPT OF DEFENSE	68	65	59	0	45	46	45	40	-6.6	-11.1	-7.3
DEPT OF HHS, TOTAL	10	16	28	31	37	5	5	13	-10.9	160.0	3.8
NIH	9	9	4	2	2	2	3	11	-16.7	266.7	2.9
OTHER HHS	1	7	24	29	35	3	2	2	12.2	.0	10.4
NSF	324	337	341	378	357	369	303	321	-1.1	5.9	-.1
ALL OTHER FEDERAL	208	208	198	282	210	268	221	237	1.0	7.2	1.9
INSTITUTIONAL SUPPORT	507	549	588	554	550	552	648	690	4.2	6.5	4.5
OTHER OUTSIDE SUPPORT, TOTAL	188	155	167	141	162	207	214	254	2.2	18.7	4.4
ALL OTHER U.S.	125	87	106	141	100	136	136	182	1.4	33.8	5.5
FOREIGN	63	68	61	0	62	71	78	72	3.6	-7.7	1.9
SELF-SUPPORT	340	333	287	349	266	260	328	323	-.6	-1.5	-.7
MATHEMATICAL/COMPUTER SCIENCES:											
TOTAL, ALL SOURCES	3,345	3,434	3,393	3,252	3,461	3,875	4,312	4,861	4.3	12.7	5.5
FEDERAL, TOTAL	552	583	575	564	607	657	630	660	2.2	4.8	2.6
DEPT OF DEFENSE	147	174	171	0	210	140	212	227	6.3	7.1	6.4
DEPT OF HHS, TOTAL	50	27	25	35	35	39	28	43	-9.2	53.6	-2.1
NIH	31	25	21	23	22	31	25	29	-3.5	16.0	-.9
OTHER HHS	19	2	4	12	13	8	3	14	-26.5	366.7	-4.3
NSF	282	303	295	295	280	267	263	291	-1.2	10.6	.4
ALL OTHER FEDERAL	73	79	84	234	82	211	127	99	9.7	-22.0	4.4
INSTITUTIONAL SUPPORT	1,745	1,732	1,695	1,703	1,636	1,734	1,865	1,982	1.1	6.3	1.8
OTHER OUTSIDE SUPPORT, TOTAL	386	397	423	411	381	484	481	483	3.7	.4	3.3
ALL OTHER U.S.	183	182	199	411	201	304	261	256	6.1	-1.9	4.9
FOREIGN	203	215	224	0	180	180	220	227	1.3	3.2	1.6
SELF-SUPPORT	662	772	700	574	837	1,000	1,336	1,736	12.4	29.9	14.8

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TABLE C-20. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-82

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
AGRICULTURAL SCIENCES:											
TOTAL, ALL SOURCES	240	243	249	261	301	284	279	253	2.5	-9.3	.8
FEDERAL, TOTAL	38	47	48	53	55	56	49	46	4.3	-6.1	2.8
DEPT OF DEFENSE	0	0	0	0	0	1	0	0	**	**	**
DEPT OF HHS, TOTAL	0	0	0	3	0	1	0	0	**	**	**
NIH	0	0	0	1	0	1	0	0	**	**	**
OTHER HHS	0	0	0	2	0	0	0	0	**	**	**
NSF	4	9	5	9	8	9	7	10	9.8	42.9	14.0
ALL OTHER FEDERAL	34	38	43	41	47	45	42	36	3.6	-14.3	.8
INSTITUTIONAL SUPPORT	100	94	104	112	116	114	130	113	4.5	-13.1	1.8
OTHER OUTSIDE SUPPORT, TOTAL	61	59	46	49	71	65	64	57	.8	-10.9	-1.0
ALL OTHER U.S.	34	21	18	49	36	24	31	28	-1.5	-9.7	-2.7
FOREIGN	27	38	28	0	35	41	33	29	3.4	-12.1	1.0
SELF-SUPPORT	41	43	51	47	59	49	36	37	-2.1	2.8	-1.5
BIOLOGICAL SCIENCES:											
TOTAL, ALL SOURCES	8,352	8,647	8,774	8,897	8,954	8,879	8,772	9,122	.8	4.0	1.3
FEDERAL, TOTAL	3,342	3,222	3,245	3,359	3,531	3,533	3,518	3,501	.9	-.5	.7
DEPT OF DEFENSE	43	39	41	0	25	42	31	22	-5.3	-29.0	-9.1
DEPT OF HHS, TOTAL	2,883	2,684	2,692	2,797	2,960	2,928	2,844	2,963	-.2	4.2	.4
NIH	2,685	2,487	2,572	2,626	2,775	2,809	2,701	2,850	.1	5.5	.9
OTHER HHS	198	197	120	171	185	119	143	113	-5.3	-21.0	-7.7
NSF	273	302	313	343	317	305	304	296	1.8	-2.6	1.2
ALL OTHER FEDERAL	143	197	199	219	229	258	339	220	15.5	-35.1	6.3
INSTITUTIONAL SUPPORT	2,676	2,911	3,060	3,006	3,111	3,155	3,305	3,449	3.6	4.4	3.7
OTHER OUTSIDE SUPPORT, TOTAL	478	544	555	624	570	664	636	700	4.9	10.1	5.6
ALL OTHER U.S.	346	396	391	624	373	459	448	495	4.4	10.5	5.2
FOREIGN	132	148	164	0	197	205	188	205	6.1	9.0	6.5
SELF-SUPPORT	1,856	1,970	1,914	1,908	1,742	1,527	1,313	1,472	-5.6	12.1	-3.3
HEALTH SCIENCES:											
TOTAL, ALL SOURCES	3,536	3,757	4,394	4,938	5,554	5,988	6,130	5,491	9.6	-10.4	6.5
FEDERAL, TOTAL	1,127	1,229	1,804	2,036	2,147	2,190	2,074	1,514	10.7	-27.0	4.3
DEPT OF DEFENSE	31	15	29	0	42	38	35	25	2.0	-28.6	-3.0
DEPT OF HHS, TOTAL	988	1,124	1,645	1,766	1,915	1,772	1,581	1,218	8.2	-23.0	3.0
NIH	306	235	248	218	239	226	275	296	-1.8	7.6	-.5
OTHER HHS	682	889	1,397	1,548	1,676	1,546	1,306	922	11.4	-29.4	4.4
NSF	14	12	9	15	14	16	14	11	.0	-21.4	-3.4
ALL OTHER FEDERAL	94	78	121	255	176	364	444	260	29.5	-41.4	15.6
INSTITUTIONAL SUPPORT	686	542	628	743	759	1,031	1,056	1,042	7.5	-1.3	6.2
OTHER OUTSIDE SUPPORT, TOTAL	180	213	262	321	345	376	337	389	11.0	15.4	11.6
ALL OTHER U.S.	123	140	150	321	145	158	134	187	1.4	39.6	6.2
FOREIGN	57	73	112	0	200	218	203	202	23.6	-.5	19.8
SELF-SUPPORT	1,543	1,773	1,700	1,838	2,303	2,391	2,663	2,546	9.5	-4.4	7.4
PSYCHOLOGY:											
TOTAL, ALL SOURCES	6,282	7,490	7,699	7,754	7,913	8,491	8,501	8,166	5.2	-3.9	3.8
FEDERAL, TOTAL	1,330	1,250	1,233	1,400	945	1,089	971	676	-5.1	-30.4	-9.2
DEPT OF DEFENSE	39	30	45	0	36	23	25	22	-7.1	-12.0	-7.9
DEPT OF HHS, TOTAL	965	901	874	1,074	650	522	498	359	-10.4	-27.9	-13.2
NIH	409	377	335	466	321	308	266	200	-6.9	-24.8	-9.7
OTHER HHS	556	524	539	608	329	214	232	159	-13.6	-31.5	-16.4
NSF	115	99	98	85	93	88	89	76	-4.2	-14.6	-5.7
ALL OTHER FEDERAL	211	220	216	241	166	456	359	219	9.3	-39.0	.5
INSTITUTIONAL SUPPORT	1,638	1,802	2,032	2,000	2,120	2,213	2,758	2,805	9.1	1.7	8.0
OTHER OUTSIDE SUPPORT, TOTAL	308	302	313	429	301	359	446	413	6.4	-7.4	4.3
ALL OTHER U.S.	281	275	285	429	255	292	416	381	6.8	-8.4	4.4
FOREIGN	27	27	28	0	46	67	30	32	1.8	6.7	2.5
SELF-SUPPORT	3,006	4,136	4,121	3,925	4,547	4,830	4,326	4,272	6.3	-1.2	5.1
SOCIAL SCIENCES:											
TOTAL, ALL SOURCES	15,078	14,886	15,565	15,450	16,408	16,607	16,767	15,744	1.8	-6.1	.6
FEDERAL, TOTAL	1,702	1,374	1,792	1,638	1,597	1,558	1,422	1,227	-3.0	-13.7	-4.6
DEPT OF DEFENSE	114	38	53	0	85	57	36	74	-17.5	105.6	-6.9
DEPT OF HHS, TOTAL	718	605	630	611	700	469	391	316	-9.6	-19.2	-11.1
NIH	224	177	170	150	237	182	144	129	-7.1	-10.4	-7.6
OTHER HHS	494	428	460	461	463	287	247	187	-10.9	-24.3	-13.0
NSF	332	281	271	243	297	291	225	180	-6.3	-20.0	-8.4
ALL OTHER FEDERAL	538	450	838	784	515	741	770	657	6.2	-14.7	2.9
INSTITUTIONAL SUPPORT	4,469	4,606	4,667	4,789	5,509	5,818	6,207	5,944	5.6	-4.2	4.2
OTHER OUTSIDE SUPPORT, TOTAL	1,486	1,530	1,549	1,507	1,606	1,874	1,624	1,822	1.5	12.2	3.0
ALL OTHER U.S.	889	848	774	1,507	815	792	566	807	-7.2	42.6	-1.4
FOREIGN	597	682	775	0	791	1,082	1,058	1,015	10.0	-4.1	7.9
SELF-SUPPORT	7,421	7,376	7,557	7,516	7,696	7,357	7,514	6,751	.2	-10.2	-1.3

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	158,099	156,257	154,303	152,334	154,736	155,430	157,711	-.3	1.5	*
FEDERAL, TOTAL	36,237	35,698	35,883	36,468	36,027	34,640	32,756	-.7	-5.4	-1.4
DEPT OF DEFENSE	4,837	4,514	4,651	4,584	4,774	5,165	5,415	1.1	4.8	1.6
DEPT OF HHS, TOTAL	12,252	11,263	10,882	11,356	9,624	8,928	8,017	-5.1	-10.2	-5.9
NIH	8,581	7,886	7,500	7,616	7,467	7,140	6,733	-3.0	-5.7	-3.4
OTHER HHS	3,671	3,377	3,382	3,740	2,157	1,788	1,284	-11.3	-28.2	-13.9
NSF	7,680	7,858	7,785	7,775	7,679	7,454	7,570	-.5	1.6	-.2
ALL OTHER FEDERAL	11,468	12,063	12,565	12,753	13,950	13,093	11,754	2.2	-10.2	.4
INSTITUTIONAL SUPPORT	58,789	59,273	58,822	58,301	60,044	61,563	62,679	.8	1.8	.9
OTHER OUTSIDE SUPPORT, TOTAL	13,967	14,698	14,779	15,705	16,428	17,579	18,843	3.9	7.2	4.4
ALL OTHER U.S.	9,097	9,012	8,685	9,182	9,594	10,245	11,313	2.0	10.4	3.2
FOREIGN	4,870	5,686	6,094	6,523	6,834	7,334	7,530	7.1	2.7	6.4
SELF-SUPPORT	49,106	46,588	44,819	41,960	42,237	41,648	43,433	-2.7	4.3	-1.7
ENGINEERING:										
TOTAL, ALL SOURCES	35,213	34,409	34,622	36,180	38,307	40,504	43,793	2.4	8.1	3.2
FEDERAL, TOTAL	9,907	10,086	10,153	10,120	10,370	10,173	10,143	.4	-.3	.3
DEPT OF DEFENSE	2,819	2,603	2,721	2,583	2,793	3,014	3,258	1.1	8.1	2.1
DEPT OF HHS, TOTAL	921	935	866	901	550	452	419	-11.2	-7.3	-10.6
NIH	667	630	512	446	427	384	338	-8.8	-12.0	-9.3
OTHER HHS	254	305	354	455	123	68	81	-19.7	19.1	-15.1
NSF	2,494	2,464	2,387	2,257	2,244	2,189	2,369	-2.2	8.2	-.7
ALL OTHER FEDERAL	3,673	4,084	4,179	4,379	4,783	4,518	4,097	3.5	-9.3	1.6
INSTITUTIONAL SUPPORT	9,678	9,869	9,841	10,453	11,438	12,665	13,409	4.6	5.9	4.8
OTHER OUTSIDE SUPPORT, TOTAL	4,308	4,604	4,874	5,224	5,682	6,341	7,002	6.7	10.4	7.2
ALL OTHER U.S.	2,875	2,944	3,014	3,376	3,745	4,286	4,708	6.9	9.8	7.3
FOREIGN	1,433	1,660	1,860	1,848	1,937	2,055	2,294	6.2	11.6	7.0
SELF-SUPPORT	11,320	9,850	9,754	10,383	10,817	11,325	13,239	*	16.9	2.3
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	18,593	18,666	18,691	18,453	18,727	18,787	19,158	.2	2.0	.4
FEDERAL, TOTAL	5,600	5,700	5,817	6,470	6,644	6,764	6,480	3.2	-4.2	2.1
DEPT OF DEFENSE	504	457	499	569	602	681	626	5.1	-8.1	3.1
DEPT OF HHS, TOTAL	1,079	1,121	1,086	1,262	1,314	1,195	1,126	1.7	-5.8	.6
NIH	1,024	1,022	961	1,137	1,246	1,107	1,059	1.3	-4.3	.5
OTHER HHS	55	99	125	125	68	88	67	8.1	-23.9	2.9
NSF	2,348	2,528	2,480	2,631	2,544	2,617	2,688	1.8	2.7	2.0
ALL OTHER FEDERAL	1,669	1,594	1,752	2,008	2,184	2,271	2,040	5.3	-10.2	2.9
INSTITUTIONAL SUPPORT	10,309	10,334	10,322	9,504	9,796	9,705	10,069	-1.0	3.8	-.3
OTHER OUTSIDE SUPPORT, TOTAL	1,042	1,151	1,182	1,271	1,102	1,189	1,460	2.2	22.8	4.9
ALL OTHER U.S.	790	808	835	926	801	872	1,077	1.7	23.5	4.5
FOREIGN	252	343	347	345	301	317	383	3.9	20.8	6.2
SELF-SUPPORT	1,642	1,481	1,370	1,208	1,185	1,129	1,149	-6.1	1.8	-5.0
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	7,765	8,012	8,159	7,912	7,826	7,916	8,111	.3	2.5	.6
FEDERAL, TOTAL	2,403	2,528	2,563	2,775	2,653	2,264	2,165	-1.0	-4.4	-1.5
DEPT OF DEFENSE	353	336	302	287	259	262	267	-4.8	1.9	-3.9
DEPT OF HHS, TOTAL	99	140	195	193	72	59	49	-8.3	-16.9	-9.6
NIH	25	30	39	22	19	11	27	-12.8	145.5	1.1
OTHER HHS	74	110	156	171	53	48	22	-7.0	-54.2	-15.9
NSF	986	1,032	1,009	1,032	981	915	904	-1.2	-1.2	-1.2
ALL OTHER FEDERAL	965	1,020	1,057	1,263	1,341	1,028	945	1.1	-8.1	-.3
INSTITUTIONAL SUPPORT	2,704	2,762	2,813	2,622	2,685	2,877	2,943	1.0	2.3	1.2
OTHER OUTSIDE SUPPORT, TOTAL	665	649	655	690	827	885	948	4.9	7.1	5.2
ALL OTHER U.S.	419	359	341	398	513	549	613	4.6	11.7	5.6
FOREIGN	246	290	314	292	314	336	335	5.3	-.3	4.5
SELF-SUPPORT	1,993	2,073	2,128	1,825	1,661	1,890	2,055	-.9	8.7	.4
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	11,413	11,634	11,180	11,285	11,883	12,317	13,656	1.3	10.9	2.6
FEDERAL, TOTAL	1,287	1,273	1,293	1,427	1,499	1,510	1,629	2.7	7.9	3.4
DEPT OF DEFENSE	547	544	485	559	580	680	758	3.7	11.5	4.8
DEPT OF HHS, TOTAL	138	125	120	105	91	72	68	-10.3	-5.6	-9.6
NIH	107	107	101	83	79	65	58	-8.0	-10.8	-8.4
OTHER HHS	31	18	19	22	12	7	10	-22.0	42.9	-14.9
NSF	436	422	485	508	509	512	511	2.7	-.2	2.3
ALL OTHER FEDERAL	166	182	203	255	319	246	292	6.8	18.7	8.4
INSTITUTIONAL SUPPORT	6,394	6,480	6,241	6,199	6,424	6,590	7,017	.5	6.4	1.3
OTHER OUTSIDE SUPPORT, TOTAL	674	707	702	835	905	924	953	5.4	3.1	5.1
ALL OTHER U.S.	307	308	344	460	515	495	531	8.3	7.3	8.1
FOREIGN	367	399	358	375	390	429	422	2.6	-1.6	2.0
SELF-SUPPORT	3,058	3,174	2,944	2,824	3,055	3,290	4,057	1.2	23.3	4.1

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TABLE C-21. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

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AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	7,386	7,633	7,594	7,274	7,363	7,451	7,270	.1	-2.4	-.2
FEDERAL, TOTAL	1,448	1,394	1,374	1,409	1,372	1,313	1,285	-1.6	-2.1	-1.7
DEPT OF DEFENSE	13	20	12	14	10	9	7	-5.9	-22.2	-8.5
DEPT OF HHS, TOTAL	84	62	54	72	79	36	25	-13.2	-30.6	-15.9
NIH	66	45	42	53	74	35	23	-10.0	-34.3	-14.0
OTHER HHS	18	17	12	19	5	1	2	-38.2	100.0	-26.9
NSF	116	90	59	50	67	57	48	-11.2	-15.8	-11.8
ALL OTHER FEDERAL	1,235	1,222	1,249	1,273	1,216	1,211	1,205	-.3	-.5	-.4
INSTITUTIONAL SUPPORT	2,412	2,551	2,512	2,562	2,492	2,517	2,490	.7	-1.1	.5
OTHER OUTSIDE SUPPORT, TOTAL	1,462	1,603	1,618	1,589	1,761	1,853	1,751	4.0	-5.5	2.6
ALL OTHER U.S.	698	690	738	664	723	747	692	1.1	-7.4	-.1
FOREIGN	764	913	880	925	1,038	1,106	1,059	6.4	-4.2	4.8
SELF-SUPPORT	2,064	2,085	2,090	1,714	1,738	1,768	1,744	-2.5	-1.4	-2.4
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	24,729	24,451	24,191	22,911	22,498	21,965	21,315	-2.0	-3.0	-2.1
FEDERAL, TOTAL	7,019	6,836	6,763	7,047	6,891	6,742	6,333	-.7	-6.1	-1.5
DEPT OF DEFENSE	126	121	107	89	112	91	86	-5.3	-5.5	-5.3
DEPT OF HHS, TOTAL	5,026	4,591	4,600	4,838	4,574	4,568	4,328	-1.6	-5.3	-2.1
NIH	4,682	4,304	4,376	4,534	4,370	4,329	4,145	-1.3	-4.3	-1.7
OTHER HHS	344	287	224	304	204	239	183	-5.9	-23.4	-8.6
NSF	665	748	785	783	791	737	697	1.7	-5.4	.7
ALL OTHER FEDERAL	1,202	1,376	1,271	1,337	1,414	1,346	1,222	1.9	-9.2	.2
INSTITUTIONAL SUPPORT	9,746	9,917	10,136	9,640	9,778	9,542	9,396	-.4	-1.5	-.5
OTHER OUTSIDE SUPPORT, TOTAL	1,792	1,920	1,864	2,016	1,884	1,965	2,115	1.5	7.6	2.4
ALL OTHER U.S.	1,250	1,273	1,158	1,164	1,112	1,114	1,285	-1.9	15.4	.4
FOREIGN	542	647	706	852	772	851	830	7.8	-2.5	6.3
SELF-SUPPORT	6,172	5,778	5,428	4,208	3,945	3,716	3,471	-8.1	-6.6	-7.9
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	7,773	7,325	7,329	7,423	7,565	7,167	6,681	-1.3	-6.8	-2.1
FEDERAL, TOTAL	2,393	2,085	2,066	2,309	2,236	1,992	1,495	-3.0	-24.9	-6.5
DEPT OF DEFENSE	114	105	138	112	113	112	113	-.3	.9	-.1
DEPT OF HHS, TOTAL	1,960	1,682	1,539	1,821	1,538	1,362	1,071	-5.9	-21.4	-8.3
NIH	899	758	627	612	559	574	623	-7.2	8.5	-5.1
OTHER HHS	1,061	924	912	1,209	979	788	448	-4.8	-43.1	-11.6
NSF	24	33	36	29	31	21	27	-2.2	28.6	1.7
ALL OTHER FEDERAL	295	265	353	347	554	497	284	9.1	-42.9	-.5
INSTITUTIONAL SUPPORT	1,986	1,977	1,971	1,954	2,116	1,992	1,966	.1	-1.3	-.1
OTHER OUTSIDE SUPPORT, TOTAL	590	625	598	654	678	692	723	2.7	4.5	2.9
ALL OTHER U.S.	405	418	372	332	362	373	407	-1.4	9.1	.1
FOREIGN	185	207	226	322	316	319	316	9.5	-.9	7.9
SELF-SUPPORT	2,804	2,638	2,694	2,506	2,535	2,491	2,497	-2.0	.2	-1.6
PSYCHOLOGY:										
TOTAL, ALL SOURCES	11,368	12,191	11,590	10,603	10,618	10,165	9,580	-1.8	-5.8	-2.4
FEDERAL, TOTAL	2,449	2,283	2,172	1,802	1,564	1,416	1,124	-8.7	-20.6	-10.5
DEPT OF DEFENSE	110	106	122	106	86	96	69	-2.2	-28.1	-6.4
DEPT OF HHS, TOTAL	1,686	1,568	1,455	1,220	878	748	628	-12.7	-16.0	-13.2
NIH	760	697	612	512	488	424	333	-9.3	-21.5	-11.1
OTHER HHS	926	871	843	708	390	324	295	-16.1	-9.0	-15.1
NSF	174	141	149	141	155	124	104	-5.5	-16.1	-7.1
ALL OTHER FEDERAL	479	468	446	335	445	448	323	-1.1	-27.9	-5.5
INSTITUTIONAL SUPPORT	4,147	4,196	4,186	3,902	3,926	4,082	3,948	-.3	-3.3	-.7
OTHER OUTSIDE SUPPORT, TOTAL	717	745	719	723	717	782	730	1.5	-6.6	.3
ALL OTHER U.S.	666	697	653	655	650	748	695	2.0	-7.1	.6
FOREIGN	51	48	66	68	67	34	35	-6.5	2.9	-5.2
SELF-SUPPORT	4,055	4,967	4,513	4,176	4,411	3,885	3,778	-.7	-2.8	-1.0
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	33,859	31,936	30,947	30,293	29,949	29,158	28,147	-2.5	-3.5	-2.6
FEDERAL, TOTAL	3,731	3,513	3,682	3,109	2,798	2,466	2,102	-6.7	-14.8	-7.9
DEPT OF DEFENSE	251	222	265	265	219	220	231	-2.2	5.0	-1.2
DEPT OF HHS, TOTAL	1,259	1,039	967	944	528	436	303	-16.2	-30.5	-18.4
NIH	351	293	230	217	205	211	127	-8.1	-39.8	-13.5
OTHER HHS	908	746	737	727	323	225	176	-20.7	-21.8	-20.9
NSF	437	400	395	344	357	282	222	-7.0	-21.3	-9.2
ALL OTHER FEDERAL	1,784	1,852	2,055	1,556	1,694	1,528	1,346	-2.5	-11.9	-3.9
INSTITUTIONAL SUPPORT	11,413	11,187	10,800	11,365	11,389	11,590	11,441	.3	-1.3	*
OTHER OUTSIDE SUPPORT, TOTAL	2,717	2,694	2,567	2,703	2,872	2,948	3,161	1.4	7.2	2.2
ALL OTHER U.S.	1,687	1,515	1,230	1,207	1,173	1,061	1,305	-7.4	23.0	-3.6
FOREIGN	1,030	1,179	1,337	1,496	1,699	1,887	1,856	10.6	-1.6	8.8
SELF-SUPPORT	15,998	14,542	13,898	13,116	12,890	12,154	11,443	-4.5	-5.8	-4.7

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. -- FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:										
TOTAL, ALL SOURCES	52,222	57,832	63,150	71,075	75,950	78,941	79,965	7.1	1.3	6.3
FEDERAL, TOTAL	12,012	12,896	14,495	16,403	16,928	16,265	14,729	5.2	-9.4	3.0
DEPT OF DEFENSE	247	284	342	414	465	482	539	11.8	11.8	11.8
DEPT OF HHS, TOTAL	8,617	9,103	10,199	11,293	9,765	9,097	8,161	.9	-10.3	-.8
NIH	3,633	3,474	3,428	4,044	4,105	4,150	4,261	2.2	2.7	2.3
OTHER HHS	4,984	5,629	6,771	7,249	5,660	4,947	3,900	-.1	-21.2	-3.4
NSF	1,116	1,104	1,238	1,500	1,566	1,631	1,649	6.5	1.1	5.7
ALL OTHER FEDERAL	2,032	2,405	2,716	3,196	5,132	5,055	4,380	16.4	-13.4	11.6
INSTITUTIONAL SUPPORT	18,294	19,944	21,582	24,612	26,698	28,731	30,799	7.8	7.2	7.7
OTHER OUTSIDE SUPPORT, TOTAL	2,885	2,982	3,450	4,334	4,686	4,855	4,953	9.1	2.0	8.0
ALL OTHER U.S.	2,343	2,361	2,638	3,311	3,490	3,621	3,646	7.5	.7	6.5
FOREIGN	542	621	812	1,023	1,196	1,234	1,307	14.7	5.9	13.4
SELF-SUPPORT	19,031	22,010	23,623	25,726	27,638	29,090	29,484	7.3	1.4	6.5
ENGINEERING:										
TOTAL, ALL SOURCES	1,870	2,025	2,386	3,520	3,993	4,699	5,313	16.6	13.1	16.1
FEDERAL, TOTAL	351	450	548	751	849	864	957	16.2	10.8	15.4
DEPT OF DEFENSE	50	61	83	82	141	135	171	18.0	26.7	19.2
DEPT OF HHS, TOTAL	73	76	76	143	112	94	82	4.3	-12.8	1.7
NIH	50	56	41	67	81	63	65	3.9	3.2	3.8
OTHER HHS	23	20	35	76	31	31	17	5.1	-45.2	-4.2
NSF	81	102	122	156	167	180	202	14.2	12.2	13.9
ALL OTHER FEDERAL	147	211	267	370	429	455	502	20.7	10.3	19.2
INSTITUTIONAL SUPPORT	587	596	727	1,128	1,253	1,493	1,787	16.8	19.7	17.2
OTHER OUTSIDE SUPPORT, TOTAL	212	264	297	433	541	616	712	19.5	15.6	18.9
ALL OTHER U.S.	159	197	228	348	452	502	571	21.1	13.7	20.0
FOREIGN	53	67	69	85	89	114	141	13.6	23.7	15.0
SELF-SUPPORT	720	715	814	1,208	1,350	1,726	1,857	15.7	7.6	14.5
PHYSICAL SCIENCES:										
TOTAL, ALL SOURCES	2,681	2,916	3,050	3,328	3,532	3,816	4,207	6.1	10.2	6.6
FEDERAL, TOTAL	608	663	755	941	1,011	1,134	1,176	10.9	3.7	9.9
DEPT OF DEFENSE	33	35	51	71	59	72	81	13.9	12.5	13.7
DEPT OF HHS, TOTAL	197	233	243	322	313	320	364	8.4	13.7	9.2
NIH	182	221	226	276	290	301	349	8.7	15.9	9.7
OTHER HHS	15	12	17	46	23	19	15	4.0	-21.1	.0
NSF	256	228	281	325	334	412	419	8.3	1.7	7.3
ALL OTHER FEDERAL	122	167	180	223	305	330	312	18.0	-5.5	14.4
INSTITUTIONAL SUPPORT	1,728	1,865	1,897	1,968	2,134	2,218	2,527	4.2	13.9	5.6
OTHER OUTSIDE SUPPORT, TOTAL	143	176	164	207	206	229	284	8.2	24.0	10.3
ALL OTHER U.S.	119	141	118	158	148	181	222	7.2	22.7	9.3
FOREIGN	24	35	46	49	58	48	62	12.2	29.2	14.5
SELF-SUPPORT	202	212	234	212	181	235	220	2.6	-6.4	1.2
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL SOURCES	1,224	1,516	1,688	2,125	2,286	2,416	2,636	12.0	9.1	11.6
FEDERAL, TOTAL	290	356	462	678	707	685	639	15.4	-6.7	11.9
DEPT OF DEFENSE	20	27	28	41	37	45	32	14.5	-28.9	6.9
DEPT OF HHS, TOTAL	14	21	38	90	43	37	24	17.6	-35.1	8.0
NIH	5	4	10	9	12	6	11	3.1	83.3	11.9
OTHER HHS	9	17	28	81	31	31	13	22.9	-58.1	5.4
NSF	158	163	189	241	261	281	283	10.1	.7	8.7
ALL OTHER FEDERAL	98	145	207	306	366	322	300	21.9	-6.8	17.3
INSTITUTIONAL SUPPORT	535	685	739	841	901	988	1,127	10.8	14.1	11.2
OTHER OUTSIDE SUPPORT, TOTAL	76	83	95	131	169	195	219	17.0	12.3	16.3
ALL OTHER U.S.	60	64	68	109	136	157	181	17.4	15.3	17.1
FOREIGN	16	19	27	22	33	38	38	15.5	.0	13.2
SELF-SUPPORT	323	392	392	475	509	548	651	9.2	18.8	10.5
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL SOURCES	2,712	2,891	2,795	2,892	3,370	3,819	4,525	5.9	18.5	7.6
FEDERAL, TOTAL	149	149	141	200	218	215	237	6.3	10.2	6.9
DEPT OF DEFENSE	27	39	31	49	41	53	58	11.9	9.4	11.5
DEPT OF HHS, TOTAL	30	26	22	36	31	12	17	-14.2	41.7	-7.8
NIH	24	24	21	19	21	6	9	-20.6	50.0	-13.1
OTHER HHS	6	2	1	17	10	6	8	.0	33.3	4.2
NSF	62	58	57	76	84	91	104	6.6	14.3	7.7
ALL OTHER FEDERAL	30	26	31	39	62	59	58	11.9	-1.7	9.9
INSTITUTIONAL SUPPORT	1,761	1,820	1,791	1,738	1,874	2,177	2,407	3.6	10.6	4.6
OTHER OUTSIDE SUPPORT, TOTAL	127	135	120	206	212	200	253	7.9	26.5	10.3
ALL OTHER U.S.	89	87	75	133	132	124	153	5.7	23.4	8.0
FOREIGN	38	48	45	73	80	76	100	12.2	31.6	14.8
SELF-SUPPORT	675	787	743	748	1,066	1,227	1,628	10.5	32.7	13.4

CONTINUED ON NEXT PAGE.

TABLE C-22. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND SOURCE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

- CONTINUED

AREA AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
AGRICULTURAL SCIENCES:										
TOTAL, ALL SOURCES	1,126	1,420	1,721	2,109	2,297	2,245	2,405	12.2	7.1	11.5
FEDERAL, TOTAL	189	231	296	343	414	399	383	13.3	-4.0	10.6
DEPT OF DEFENSE	2	2	3	2	1	2	2	.0	.0	.0
DEPT OF HHS, TOTAL	19	21	15	32	45	23	13	3.2	-43.5	-5.3
NIH	9	13	8	16	36	18	10	12.2	-44.4	1.5
OTHER HHS	10	8	7	16	9	5	3	-10.9	-40.0	-15.8
NSF	17	15	16	24	15	13	23	-4.4	76.9	4.4
ALL OTHER FEDERAL	151	193	262	285	353	361	345	15.6	-4.4	12.5
INSTITUTIONAL SUPPORT	413	553	654	857	888	945	1,013	14.8	7.2	13.7
OTHER OUTSIDE SUPPORT, TOTAL	156	164	208	216	286	290	298	10.9	2.8	9.7
ALL OTHER U.S.	112	109	137	136	201	201	196	10.2	-2.5	8.3
FOREIGN	44	55	71	80	85	89	102	12.5	14.6	12.8
SELF-SUPPORT	368	472	563	693	709	611	711	8.8	16.4	9.9
BIOLOGICAL SCIENCES:										
TOTAL, ALL SOURCES	10,066	10,987	11,830	12,730	13,122	13,294	13,897	4.7	4.5	4.7
FEDERAL, TOTAL	2,932	2,935	3,163	3,733	3,779	3,713	3,761	4.0	1.3	3.6
DEPT OF DEFENSE	17	24	26	31	49	25	34	6.6	36.0	10.4
DEPT OF HHS, TOTAL	2,288	2,188	2,285	2,708	2,624	2,603	2,659	2.2	2.2	2.2
NIH	2,034	1,964	2,049	2,445	2,433	2,458	2,524	3.2	2.7	3.1
OTHER HHS	254	222	236	263	191	145	135	-8.9	-6.9	-8.6
NSF	256	292	345	354	376	349	373	5.3	6.9	5.5
ALL OTHER FEDERAL	371	431	507	640	730	736	695	12.1	-5.6	9.4
INSTITUTIONAL SUPPORT	4,176	4,608	4,955	5,319	5,706	6,066	6,372	6.4	5.0	6.2
OTHER OUTSIDE SUPPORT, TOTAL	493	599	654	855	841	778	946	7.9	21.6	9.8
ALL OTHER U.S.	401	472	497	618	632	563	701	5.8	24.5	8.3
FOREIGN	92	127	157	237	209	215	245	15.2	14.0	15.0
SELF-SUPPORT	2,465	2,845	3,058	2,823	2,796	2,737	2,818	1.8	3.0	1.9
HEALTH SCIENCES:										
TOTAL, ALL SOURCES	8,555	10,194	11,793	14,126	15,006	15,230	14,526	10.1	-4.6	7.9
FEDERAL, TOTAL	3,607	4,289	5,309	5,771	6,009	5,730	4,726	8.0	-17.5	3.9
DEPT OF DEFENSE	29	29	47	58	52	71	80	16.1	12.7	15.6
DEPT OF HHS, TOTAL	3,310	3,947	4,903	5,349	4,646	4,260	3,708	4.3	-13.0	1.6
NIH	345	338	291	323	366	529	661	7.4	25.0	9.7
OTHER HHS	2,965	3,609	4,612	5,026	4,280	3,731	3,047	3.9	-18.3	.4
NSF	8	11	11	21	18	15	14	11.0	-6.7	8.3
ALL OTHER FEDERAL	260	302	348	343	1,293	1,384	924	32.1	-33.2	19.9
INSTITUTIONAL SUPPORT	1,304	1,322	1,540	2,104	2,417	2,403	2,737	10.7	13.9	11.2
OTHER OUTSIDE SUPPORT, TOTAL	283	297	410	588	532	574	575	12.5	.2	10.7
ALL OTHER U.S.	198	213	278	427	363	448	441	14.6	-1.6	12.1
FOREIGN	85	84	132	161	169	126	134	6.8	6.3	6.7
SELF-SUPPORT	3,361	4,286	4,534	5,663	6,048	6,523	6,488	11.7	-.5	9.9
PSYCHOLOGY:										
TOTAL, ALL SOURCES	8,342	9,262	9,649	10,115	10,954	11,370	11,564	5.3	1.7	4.8
FEDERAL, TOTAL	1,875	1,790	1,759	1,634	1,621	1,477	1,165	-3.9	-21.1	-6.6
DEPT OF DEFENSE	24	34	35	44	41	43	45	10.2	4.7	9.4
DEPT OF HHS, TOTAL	1,444	1,405	1,367	1,261	992	884	677	-7.9	-23.4	-10.3
NIH	666	570	565	563	521	474	392	-5.5	-17.3	-7.3
OTHER HHS	778	835	802	698	471	410	285	-10.1	-30.5	-13.4
NSF	96	71	77	113	125	119	103	3.6	-13.4	1.0
ALL OTHER FEDERAL	311	280	280	216	463	431	340	5.6	-21.1	1.3
INSTITUTIONAL SUPPORT	2,809	3,149	3,315	3,550	3,927	4,519	4,653	8.2	3.0	7.5
OTHER OUTSIDE SUPPORT, TOTAL	469	529	573	628	720	723	649	7.5	-10.2	4.7
ALL OTHER U.S.	438	493	533	583	671	682	611	7.7	-10.4	4.9
FOREIGN	31	36	40	45	49	41	38	4.8	-7.3	3.0
SELF-SUPPORT	3,189	3,794	4,002	4,303	4,686	4,651	5,097	6.5	9.6	6.9
SOCIAL SCIENCES:										
TOTAL, ALL SOURCES	15,646	16,621	18,238	20,130	21,390	22,052	20,892	5.9	-5.3	4.2
FEDERAL, TOTAL	2,011	2,033	2,062	2,352	2,320	2,048	1,685	.3	-17.7	-2.5
DEPT OF DEFENSE	45	33	38	36	44	36	36	-3.7	.0	-3.1
DEPT OF HHS, TOTAL	1,242	1,186	1,250	1,352	959	864	617	-5.9	-28.6	-9.5
NIH	318	282	217	326	345	295	240	-1.2	-18.6	-3.9
OTHER HHS	924	904	1,033	1,026	614	569	377	-7.8	-33.7	-12.0
NSF	182	164	140	190	186	171	128	-1.0	-25.1	-4.9
ALL OTHER FEDERAL	542	650	634	774	1,131	977	904	10.3	-7.5	7.6
INSTITUTIONAL SUPPORT	4,981	5,346	5,964	7,107	7,598	7,922	8,176	8.0	3.2	7.3
OTHER OUTSIDE SUPPORT, TOTAL	926	735	929	1,070	1,179	1,250	1,017	5.1	-18.6	1.3
ALL OTHER U.S.	767	585	704	799	755	763	570	-.1	-25.3	-4.2
FOREIGN	159	150	225	271	424	487	447	20.5	-8.2	15.9
SELF-SUPPORT	7,728	8,507	9,283	9,601	10,293	10,832	10,014	5.8	-7.6	3.8

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	210,321	214,089	217,453	223,409	230,686	234,371	237,676	1.8	1.4	1.8
FELLOWSHIPS AND TRAINEESHIPS	38,812	37,485	39,203	39,066	38,909	37,679	36,136	-.5	-4.1	-1.0
RESEARCH ASSISTANTSHIPS	40,136	42,717	43,896	48,410	50,815	51,954	52,094	4.4	.3	3.8
TEACHING ASSISTANTSHIPS	47,348	48,312	48,665	49,588	51,862	53,824	56,221	2.2	4.5	2.5
OTHER TYPES OF SUPPORT	84,025	85,575	85,689	86,345	89,100	90,914	93,225	1.3	2.5	1.5
ENGINEERING:										
TOTAL, ALL TYPES	37,083	36,434	37,008	39,700	42,300	45,203	49,106	3.4	8.6	4.1
FELLOWSHIPS AND TRAINEESHIPS	4,652	4,638	4,693	4,413	4,635	5,057	5,445	1.4	7.7	2.3
RESEARCH ASSISTANTSHIPS	10,987	11,352	11,899	12,868	13,971	14,444	14,626	4.7	1.3	4.2
TEACHING ASSISTANTSHIPS	5,399	5,602	5,768	6,535	7,269	8,186	8,989	7.2	9.8	7.6
OTHER TYPES OF SUPPORT	16,045	14,842	14,648	15,884	16,425	17,516	20,046	1.5	14.4	3.2
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	21,274	21,582	21,741	21,781	22,259	22,603	23,365	1.0	3.4	1.3
FELLOWSHIPS AND TRAINEESHIPS	2,245	2,301	2,472	2,271	2,183	2,237	2,276	-.1	1.7	.2
RESEARCH ASSISTANTSHIPS	6,441	6,784	6,806	7,710	8,260	8,525	8,695	4.8	2.0	4.4
TEACHING ASSISTANTSHIPS	10,185	10,202	10,129	9,572	9,894	9,975	10,388	-.3	4.1	.3
OTHER TYPES OF SUPPORT	2,403	2,295	2,334	2,228	1,922	1,866	2,006	-4.1	7.5	-2.5
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	8,989	9,528	9,847	10,037	10,112	10,332	10,747	2.3	4.0	2.6
FELLOWSHIPS AND TRAINEESHIPS	952	1,000	1,179	1,066	1,075	1,069	1,118	2.0	4.6	2.3
RESEARCH ASSISTANTSHIPS	2,838	3,177	3,219	3,505	3,625	3,360	3,258	2.9	-3.0	2.0
TEACHING ASSISTANTSHIPS	2,172	2,239	2,237	2,471	2,544	2,514	2,705	2.5	7.6	3.2
OTHER TYPES OF SUPPORT	3,027	3,112	3,212	2,995	2,868	3,389	3,666	1.9	8.2	2.8
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	14,125	14,525	13,975	14,177	15,253	16,136	18,181	2.2	12.7	3.7
FELLOWSHIPS AND TRAINEESHIPS	1,321	1,280	1,271	1,358	1,253	1,265	1,240	-.7	-2.0	-.9
RESEARCH ASSISTANTSHIPS	1,375	1,528	1,504	1,615	1,790	1,797	2,017	4.6	12.2	5.6
TEACHING ASSISTANTSHIPS	6,491	6,575	6,345	6,445	6,786	7,287	7,788	1.9	6.9	2.6
OTHER TYPES OF SUPPORT	4,938	5,142	4,855	4,759	5,424	5,787	7,136	2.7	23.3	5.4
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	8,512	9,053	9,315	9,383	9,640	9,696	9,675	2.2	-.2	1.8
FELLOWSHIPS AND TRAINEESHIPS	891	748	808	704	772	814	804	-1.5	-1.2	-1.5
RESEARCH ASSISTANTSHIPS	3,710	3,964	4,074	4,428	4,523	4,660	4,613	3.9	-1.0	3.2
TEACHING ASSISTANTSHIPS	691	783	836	826	892	807	905	2.6	12.1	3.9
OTHER TYPES OF SUPPORT	3,220	3,558	3,597	3,425	3,473	3,415	3,353	1.0	-1.8	.6
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	34,795	35,438	36,021	35,641	35,620	35,259	35,212	.2	-.1	.2
FELLOWSHIPS AND TRAINEESHIPS	8,675	8,023	8,163	8,165	8,094	7,900	7,831	-1.5	-.9	-1.5
RESEARCH ASSISTANTSHIPS	6,787	7,687	7,992	9,208	9,517	9,775	9,819	6.3	.5	5.4
TEACHING ASSISTANTSHIPS	8,827	9,101	9,159	8,850	9,088	9,098	9,143	.3	1.5	.5
OTHER TYPES OF SUPPORT	10,506	10,627	10,707	9,418	8,921	8,576	8,419	-3.3	-1.8	-3.1
HEALTH SCIENCES:										
TOTAL, ALL TYPES	16,328	17,519	19,122	21,549	22,571	22,397	21,207	5.4	-5.3	3.8
FELLOWSHIPS AND TRAINEESHIPS	6,517	6,597	7,628	8,165	8,113	7,775	6,811	3.0	-12.4	.6
RESEARCH ASSISTANTSHIPS	825	952	1,015	1,391	1,473	1,495	1,546	10.4	3.4	9.4
TEACHING ASSISTANTSHIPS	1,695	1,696	1,880	1,923	2,026	1,997	2,106	2.8	5.5	3.2
OTHER TYPES OF SUPPORT	7,291	8,274	8,599	10,070	10,959	11,130	10,744	7.3	-3.5	5.7
PSYCHOLOGY:										
TOTAL, ALL TYPES	19,710	21,453	21,239	20,718	21,572	21,535	21,144	1.5	-1.8	1.0
FELLOWSHIPS AND TRAINEESHIPS	4,476	4,321	4,183	3,600	3,446	3,166	2,927	-5.6	-7.5	-5.9
RESEARCH ASSISTANTSHIPS	2,213	2,248	2,300	2,335	2,336	2,661	2,521	3.1	-5.3	1.9
TEACHING ASSISTANTSHIPS	4,095	4,116	4,213	4,212	4,411	4,594	4,574	1.9	-.4	1.6
OTHER TYPES OF SUPPORT	8,926	10,768	10,543	10,571	11,379	11,114	11,122	3.7	.1	3.2
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	49,505	48,557	49,185	50,423	51,339	51,210	49,039	.6	-4.2	-.1
FELLOWSHIPS AND TRAINEESHIPS	9,083	8,577	8,806	9,324	9,338	8,396	7,684	-1.3	-8.5	-2.4
RESEARCH ASSISTANTSHIPS	4,960	5,025	5,087	5,350	5,320	5,237	4,999	.9	-4.5	.1
TEACHING ASSISTANTSHIPS	7,793	7,998	8,098	8,754	8,952	9,456	9,623	3.3	1.8	3.1
OTHER TYPES OF SUPPORT	27,669	26,957	27,194	26,995	27,729	28,121	26,733	.3	-4.9	-.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	154,024	156,251	157,768	160,065	165,198	167,244	170,523	1.4	2.0	1.5
FELLOWSHIPS AND TRAINEESHIPS	22,656	21,835	22,270	22,900	22,615	22,654	21,543	*	-4.9	-.7
RESEARCH ASSISTANTSHIPS	31,272	33,285	34,123	37,396	38,876	39,364	39,439	3.9	.2	3.4
TEACHING ASSISTANTSHIPS	38,303	39,133	39,456	39,566	41,659	42,304	44,495	1.7	5.2	2.2
OTHER TYPES OF SUPPORT	61,793	61,998	61,919	60,203	62,048	62,922	65,046	.3	3.4	.7
ENGINEERING:										
TOTAL, ALL TYPES	25,480	25,056	25,413	26,911	29,104	31,151	34,077	3.4	9.4	4.2
FELLOWSHIPS AND TRAINEESHIPS	2,322	2,426	2,377	2,293	2,531	2,806	2,920	3.2	4.1	3.3
RESEARCH ASSISTANTSHIPS	7,669	7,778	8,107	8,683	9,382	9,754	10,000	4.1	2.5	3.9
TEACHING ASSISTANTSHIPS	3,974	4,192	4,296	4,738	5,406	6,139	6,845	7.5	11.5	8.1
OTHER TYPES OF SUPPORT	11,515	10,660	10,633	11,197	11,785	12,452	14,312	1.3	14.9	3.2
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	15,058	15,292	15,393	15,444	15,798	16,053	16,756	1.1	4.4	1.5
FELLOWSHIPS AND TRAINEESHIPS	971	1,012	1,103	1,115	1,043	1,168	1,239	3.1	6.1	3.5
RESEARCH ASSISTANTSHIPS	4,389	4,683	4,595	5,210	5,584	5,801	5,966	4.8	2.8	4.5
TEACHING ASSISTANTSHIPS	7,841	7,822	7,878	7,413	7,669	7,648	8,003	-.4	4.6	.3
OTHER TYPES OF SUPPORT	1,857	1,775	1,817	1,706	1,502	1,436	1,548	-4.2	7.8	-2.6
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	7,344	7,865	8,179	8,410	8,405	8,568	8,869	2.6	3.5	2.7
FELLOWSHIPS AND TRAINEESHIPS	581	651	762	720	745	762	808	4.6	6.0	4.8
RESEARCH ASSISTANTSHIPS	2,267	2,576	2,620	2,863	2,908	2,700	2,542	3.0	-5.9	1.6
TEACHING ASSISTANTSHIPS	1,921	1,933	1,937	2,143	2,195	2,131	2,298	1.7	7.8	2.6
OTHER TYPES OF SUPPORT	2,575	2,705	2,860	2,684	2,557	2,975	3,221	2.4	8.3	3.2
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	10,780	11,041	10,582	10,716	11,378	11,824	13,320	1.6	12.7	3.1
FELLOWSHIPS AND TRAINEESHIPS	639	597	528	684	597	659	612	.5	-7.1	-.6
RESEARCH ASSISTANTSHIPS	873	937	924	1,049	1,196	1,174	1,327	5.1	13.0	6.2
TEACHING ASSISTANTSHIPS	5,338	5,384	5,272	5,315	5,553	5,905	6,350	1.7	7.5	2.5
OTHER TYPES OF SUPPORT	3,930	4,123	3,858	3,668	4,032	4,086	5,031	.7	23.1	3.6
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	8,272	8,810	9,066	9,082	9,376	9,417	9,422	2.2	.1	1.9
FELLOWSHIPS AND TRAINEESHIPS	812	668	729	617	681	725	741	-1.9	2.2	-1.3
RESEARCH ASSISTANTSHIPS	3,607	3,864	3,978	4,308	4,404	4,537	4,494	3.9	-.9	3.2
TEACHING ASSISTANTSHIPS	677	763	814	798	869	784	880	2.5	12.2	3.8
OTHER TYPES OF SUPPORT	3,176	3,515	3,545	3,359	3,422	3,371	3,307	1.0	-1.9	.6
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	26,443	26,791	27,247	26,687	26,741	26,487	26,090	*	-1.5	-.2
FELLOWSHIPS AND TRAINEESHIPS	4,732	4,244	4,254	4,538	4,386	4,388	4,291	-1.3	-2.2	-1.4
RESEARCH ASSISTANTSHIPS	5,964	6,640	7,007	7,789	8,015	8,012	8,013	5.0	*	4.3
TEACHING ASSISTANTSHIPS	7,394	7,661	7,699	7,395	7,600	7,466	7,529	.2	.8	.3
OTHER TYPES OF SUPPORT	8,353	8,246	8,287	6,965	6,740	6,621	6,257	-3.8	-5.5	-4.0
HEALTH SCIENCES:										
TOTAL, ALL TYPES	12,792	13,762	14,728	15,995	16,583	16,267	15,716	4.1	-3.4	3.0
FELLOWSHIPS AND TRAINEESHIPS	5,087	5,145	5,590	5,915	5,919	5,655	5,061	1.8	-10.5	-.1
RESEARCH ASSISTANTSHIPS	679	833	869	1,173	1,255	1,254	1,310	10.8	4.5	9.8
TEACHING ASSISTANTSHIPS	1,479	1,514	1,663	1,733	1,800	1,721	1,797	2.6	4.4	2.8
OTHER TYPES OF SUPPORT	5,547	6,270	6,606	7,174	7,609	7,637	7,548	5.5	-1.2	4.5
PSYCHOLOGY:										
TOTAL, ALL TYPES	13,428	13,963	13,540	12,805	13,081	13,034	12,978	-.5	-.4	-.5
FELLOWSHIPS AND TRAINEESHIPS	2,800	2,723	2,560	2,267	2,110	2,011	1,810	-5.4	-10.0	-6.0
RESEARCH ASSISTANTSHIPS	1,752	1,822	1,775	1,928	1,865	1,995	1,849	2.2	-7.3	.8
TEACHING ASSISTANTSHIPS	3,330	3,337	3,386	3,295	3,529	3,413	3,461	.4	1.4	.6
OTHER TYPES OF SUPPORT	5,546	6,081	5,819	5,315	5,577	5,615	5,858	.2	4.3	.8
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	34,427	33,671	33,620	34,015	34,732	34,443	33,295	*	-3.3	-.5
FELLOWSHIPS AND TRAINEESHIPS	4,712	4,369	4,367	4,751	4,603	4,480	4,061	-.8	-9.4	-2.1
RESEARCH ASSISTANTSHIPS	4,072	4,152	4,248	4,393	4,267	4,137	3,938	.3	-4.8	-.5
TEACHING ASSISTANTSHIPS	6,349	6,527	6,511	6,736	7,038	7,097	7,332	1.9	3.3	2.1
OTHER TYPES OF SUPPORT	19,294	18,623	18,494	18,135	18,824	18,729	17,964	-.5	-4.1	-1.0

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY AREA AND TYPE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

AREA AND TYPE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL AREAS:										
TOTAL, ALL TYPES	56,297	57,838	59,685	63,344	65,488	67,127	67,153	3.0	*	2.6
FELLOWSHIPS AND TRAINEESHIPS	16,156	15,650	16,933	16,166	16,294	15,025	14,593	-1.2	-2.9	-1.4
RESEARCH ASSISTANTSHIPS	8,864	9,432	9,773	11,014	11,939	12,590	12,655	6.0	.5	5.2
TEACHING ASSISTANTSHIPS	9,045	9,179	9,209	10,022	10,203	11,520	11,726	4.1	1.8	3.8
OTHER TYPES OF SUPPORT	22,232	23,577	23,770	26,142	27,052	27,992	28,179	3.9	.7	3.4
ENGINEERING:										
TOTAL, ALL TYPES	11,603	11,378	11,595	12,789	13,196	14,052	15,029	3.2	7.0	3.8
FELLOWSHIPS AND TRAINEESHIPS	2,330	2,212	2,316	2,120	2,104	2,251	2,525	-.6	12.2	1.2
RESEARCH ASSISTANTSHIPS	3,318	3,574	3,792	4,185	4,589	4,690	4,626	5.9	-1.4	4.9
TEACHING ASSISTANTSHIPS	1,425	1,410	1,472	1,797	1,863	2,047	2,144	6.2	4.7	6.0
OTHER TYPES OF SUPPORT	4,530	4,182	4,015	4,687	4,640	5,064	5,734	1.9	13.2	3.4
PHYSICAL SCIENCES:										
TOTAL, ALL TYPES	6,216	6,290	6,348	6,337	6,461	6,550	6,609	.9	.9	.9
FELLOWSHIPS AND TRAINEESHIPS	1,274	1,289	1,369	1,156	1,140	1,069	1,037	-2.9	-3.0	-2.9
RESEARCH ASSISTANTSHIPS	2,052	2,101	2,211	2,500	2,676	2,724	2,729	4.8	.2	4.2
TEACHING ASSISTANTSHIPS	2,344	2,380	2,251	2,159	2,225	2,327	2,385	-.1	2.5	.2
OTHER TYPES OF SUPPORT	546	520	517	522	420	430	458	-3.9	6.5	-2.5
ENVIRONMENTAL SCIENCES:										
TOTAL, ALL TYPES	1,645	1,663	1,668	1,627	1,707	1,764	1,878	1.2	6.5	1.9
FELLOWSHIPS AND TRAINEESHIPS	371	349	417	346	330	307	310	-3.1	1.0	-2.5
RESEARCH ASSISTANTSHIPS	571	601	599	642	717	660	716	2.4	8.5	3.3
TEACHING ASSISTANTSHIPS	251	306	300	328	349	383	407	7.3	6.3	7.1
OTHER TYPES OF SUPPORT	452	407	352	311	311	414	445	-1.5	7.5	-.2
MATHEMATICAL/COMPUTER SCIENCES:										
TOTAL, ALL TYPES	3,345	3,484	3,393	3,461	3,875	4,312	4,861	4.3	12.7	5.5
FELLOWSHIPS AND TRAINEESHIPS	682	683	743	674	656	606	628	-1.9	3.6	-1.2
RESEARCH ASSISTANTSHIPS	502	591	580	566	594	623	690	3.7	10.8	4.6
TEACHING ASSISTANTSHIPS	1,153	1,191	1,073	1,130	1,233	1,382	1,438	3.1	4.1	3.2
OTHER TYPES OF SUPPORT	1,008	1,019	997	1,091	1,392	1,701	2,105	9.1	23.8	11.1
AGRICULTURAL SCIENCES:										
TOTAL, ALL TYPES	240	243	249	301	284	279	253	2.5	-9.3	.8
FELLOWSHIPS AND TRAINEESHIPS	79	80	79	87	91	89	63	2.0	-29.2	-3.2
RESEARCH ASSISTANTSHIPS	103	100	96	120	119	123	119	3.0	-3.3	2.1
TEACHING ASSISTANTSHIPS	14	20	22	28	23	23	25	8.6	8.7	8.6
OTHER TYPES OF SUPPORT	44	43	52	66	51	44	46	.0	4.5	.6
BIOLOGICAL SCIENCES:										
TOTAL, ALL TYPES	8,352	8,647	8,774	8,954	8,879	8,772	9,122	.8	4.0	1.3
FELLOWSHIPS AND TRAINEESHIPS	3,943	3,779	3,909	3,627	3,708	3,512	3,540	-1.9	.8	-1.5
RESEARCH ASSISTANTSHIPS	823	1,047	985	1,419	1,502	1,763	1,806	13.5	2.4	11.9
TEACHING ASSISTANTSHIPS	1,433	1,440	1,460	1,455	1,488	1,542	1,614	1.2	4.7	1.7
OTHER TYPES OF SUPPORT	2,153	2,381	2,420	2,453	2,181	1,955	2,162	-1.6	10.6	.1
HEALTH SCIENCES:										
TOTAL, ALL TYPES	3,536	3,757	4,394	5,554	5,988	6,130	5,491	9.6	-10.4	6.5
FELLOWSHIPS AND TRAINEESHIPS	1,430	1,452	2,038	2,250	2,194	2,120	1,750	6.8	-17.5	2.9
RESEARCH ASSISTANTSHIPS	146	119	146	218	218	241	236	8.7	-2.1	7.1
TEACHING ASSISTANTSHIPS	216	182	217	190	226	276	309	4.2	12.0	5.2
OTHER TYPES OF SUPPORT	1,744	2,004	1,993	2,896	3,350	3,493	3,196	12.3	-8.5	9.0
PSYCHOLOGY:										
TOTAL, ALL TYPES	6,282	7,490	7,699	7,913	8,491	8,501	8,166	5.2	-3.9	3.8
FELLOWSHIPS AND TRAINEESHIPS	1,676	1,598	1,623	1,333	1,336	1,155	1,117	-6.0	-3.3	-5.6
RESEARCH ASSISTANTSHIPS	461	426	525	407	471	666	672	6.3	.9	5.5
TEACHING ASSISTANTSHIPS	765	779	827	917	882	1,181	1,113	7.5	-5.8	5.5
OTHER TYPES OF SUPPORT	3,380	4,687	4,724	5,256	5,802	5,499	5,264	8.4	-4.3	6.5
SOCIAL SCIENCES:										
TOTAL, ALL TYPES	15,078	14,886	15,565	16,408	16,607	16,767	15,744	1.8	-6.1	.6
FELLOWSHIPS AND TRAINEESHIPS	4,371	4,208	4,439	4,573	4,735	3,916	3,623	-1.8	-7.5	-2.6
RESEARCH ASSISTANTSHIPS	888	873	839	957	1,053	1,100	1,061	3.6	-3.5	2.6
TEACHING ASSISTANTSHIPS	1,444	1,471	1,587	2,018	1,914	2,359	2,291	8.5	-2.9	6.8
OTHER TYPES OF SUPPORT	8,375	8,334	8,700	8,860	8,905	9,392	8,769	1.9	-6.6	.7

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1975-77 AND 1979-82 1/

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL TYPES:										
TOTAL, ALL SOURCES	210,321	214,089	217,453	223,409	230,686	234,371	237,676	1.8	1.4	1.8
FEDERAL, TOTAL	48,249	48,594	50,378	52,871	52,955	50,905	47,485	.9	-6.7	-.2
DEPT OF DEFENSE	5,084	4,798	4,993	4,998	5,239	5,647	5,954	1.8	5.4	2.3
DEPT OF HHS, TOTAL	20,869	20,366	21,081	22,649	19,389	18,025	16,178	-2.4	-10.2	-3.6
NIH	12,214	11,360	10,928	11,660	11,572	11,290	10,994	-1.3	-2.6	-1.5
OTHER HHS	8,655	9,006	10,153	10,989	7,817	6,735	5,184	-4.1	-23.0	-7.1
NSF	8,796	8,962	9,023	9,275	9,245	9,085	9,219	.5	1.5	.7
ALL OTHER FEDERAL	13,500	14,468	15,281	15,949	19,082	18,148	16,134	5.1	-11.1	2.6
INSTITUTIONAL SUPPORT	77,083	79,217	80,404	82,813	86,742	90,294	93,478	2.7	3.5	2.8
OTHER OUTSIDE SUPPORT, TOTAL	16,852	17,680	18,229	20,039	21,114	22,434	23,796	4.9	6.1	5.1
ALL OTHER U.S.	11,440	11,373	11,323	12,493	13,084	13,866	14,959	3.3	7.9	3.9
FOREIGN	5,412	6,307	6,906	7,546	8,030	8,568	8,837	8.0	3.1	7.3
SELF-SUPPORT	68,137	68,598	68,442	67,686	69,875	70,738	72,917	.6	3.1	1.0
FELLOWSHIPS AND TRAINEESHIPS:										
TOTAL, ALL SOURCES	38,812	37,485	39,203	39,066	38,909	37,679	36,136	-.5	-4.1	-1.0
FEDERAL, TOTAL	20,271	18,899	19,686	19,310	18,443	16,747	14,544	-3.1	-13.2	-4.6
DEPT OF DEFENSE	513	448	472	280	325	262	234	-10.6	-10.7	-10.6
DEPT OF HHS, TOTAL	15,125	14,170	14,899	15,475	12,674	11,438	9,879	-4.6	-13.6	-5.9
NIH	7,828	6,528	6,256	6,229	5,817	5,532	5,429	-5.6	-1.9	-5.1
OTHER HHS	7,297	7,642	8,643	9,246	6,857	5,906	4,450	-3.5	-24.7	-6.8
NSF	1,796	1,765	1,809	1,582	1,509	1,381	1,366	-4.3	-1.1	-3.8
ALL OTHER FEDERAL	2,837	2,516	2,506	1,973	3,935	3,666	3,065	4.4	-16.4	1.1
INSTITUTIONAL SUPPORT	11,393	11,337	11,741	12,748	12,757	13,012	13,033	2.2	.2	1.9
OTHER OUTSIDE SUPPORT, TOTAL	7,148	7,249	7,776	7,008	7,709	7,920	8,559	1.7	8.1	2.6
ALL OTHER U.S.	4,115	3,948	3,991	3,778	3,999	4,050	4,529	-.3	11.8	1.4
FOREIGN	3,033	3,301	3,785	3,230	3,710	3,870	4,030	4.1	4.1	4.1
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	40,136	42,717	43,896	48,410	50,815	51,954	52,094	4.4	.3	3.8
FEDERAL, TOTAL	23,077	24,420	25,179	27,841	29,080	28,944	28,178	3.8	-2.6	2.9
DEPT OF DEFENSE	2,501	2,538	2,637	2,795	2,924	3,280	3,467	4.6	5.7	4.8
DEPT OF HHS, TOTAL	4,754	5,356	5,272	6,143	5,980	6,014	5,796	4.0	-3.6	2.9
NIH	3,887	4,455	4,307	4,991	5,383	5,457	5,281	5.8	-3.2	4.5
OTHER HHS	867	901	965	1,152	597	557	515	-7.1	-7.5	-7.2
NSF	6,822	7,036	7,041	7,465	7,605	7,579	7,743	1.8	2.2	1.8
ALL OTHER FEDERAL	9,000	9,490	10,229	11,438	12,571	12,071	11,172	5.0	-7.4	3.1
INSTITUTIONAL SUPPORT	12,894	13,872	14,163	15,029	15,991	16,706	17,111	4.4	2.4	4.1
OTHER OUTSIDE SUPPORT, TOTAL	4,165	4,425	4,554	5,540	5,744	6,304	6,805	7.2	7.9	7.3
ALL OTHER U.S.	3,924	4,130	4,219	4,853	5,211	5,706	6,203	6.4	8.7	6.8
FOREIGN	241	295	335	687	533	598	602	16.4	.7	14.0
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	47,348	48,312	48,665	49,588	51,862	53,824	56,221	2.2	4.5	2.5
FEDERAL, TOTAL	548	563	586	549	603	549	382	*	-30.4	-5.0
DEPT OF DEFENSE	0	0	0	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	341	299	296	241	132	118	102	-16.2	-13.6	-15.8
NIH	160	148	121	109	82	75	49	-11.9	-34.7	-15.6
OTHER HHS	181	151	175	132	50	43	53	-21.3	23.3	-16.1
NSF	51	44	35	27	30	58	24	2.2	-58.6	-10.2
ALL OTHER FEDERAL	156	220	255	281	441	373	256	15.6	-31.4	7.3
INSTITUTIONAL SUPPORT	46,631	47,451	47,767	48,666	50,951	52,899	55,398	2.1	4.7	2.5
OTHER OUTSIDE SUPPORT, TOTAL	169	298	312	373	308	376	441	14.3	17.3	14.7
ALL OTHER U.S.	169	298	312	373	308	376	441	14.3	17.3	14.7
FOREIGN	0	0	0	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:										
TOTAL, ALL SOURCES	84,025	85,575	85,689	86,345	89,100	90,914	93,225	1.3	2.5	1.5
FEDERAL, TOTAL	4,353	4,712	4,927	5,171	4,829	4,665	4,381	1.2	-6.1	.1
DEPT OF DEFENSE	2,070	1,812	1,884	1,923	1,990	2,105	2,253	.3	7.0	1.2
DEPT OF HHS, TOTAL	649	541	614	790	603	455	401	-5.7	-11.9	-6.6
NIH	339	229	244	331	290	226	235	-6.5	4.0	-5.1
OTHER HHS	310	312	370	459	313	229	166	-4.9	-27.5	-8.5
NSF	127	117	138	201	101	67	86	-10.1	28.4	-5.4
ALL OTHER FEDERAL	1,507	2,242	2,291	2,257	2,135	2,038	1,641	5.2	-19.5	1.2
INSTITUTIONAL SUPPORT	6,165	6,557	6,733	6,370	7,043	7,677	7,936	3.7	3.4	3.7
OTHER OUTSIDE SUPPORT, TOTAL	5,370	5,708	5,587	7,118	7,353	7,834	7,991	6.5	2.0	5.8
ALL OTHER U.S.	3,232	2,997	2,801	3,489	3,566	3,734	3,786	2.4	1.4	2.3
FOREIGN	2,138	2,711	2,786	3,629	3,787	4,100	4,205	11.5	2.6	10.1
SELF-SUPPORT	68,137	68,598	68,442	67,686	69,875	70,738	72,917	.6	3.1	1.0

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FELLOWSHIPS AND TRAINEESHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	38,812	37,485	39,203	39,066	38,909	37,679	36,136	-.5	-4.1	-1.0
ENGINEERING	4,652	4,638	4,693	4,413	4,635	5,057	5,445	1.4	7.7	2.3
AEROSPACE	121	107	92	90	105	130	147	1.2	13.1	2.8
AGRICULTURAL	56	38	86	71	84	47	70	-2.9	48.9	3.2
BIOMEDICAL	191	193	132	194	153	143	121	-4.7	-15.4	-6.3
CHEMICAL	671	745	791	687	707	797	1,021	2.9	28.1	6.2
CIVIL	979	804	765	745	803	843	813	-2.5	-3.6	-2.6
ELECTRICAL	769	767	779	751	864	1,099	1,159	6.1	5.5	6.0
ENGINEERING SCIENCE	134	152	165	169	178	219	237	8.5	8.2	8.5
INDUSTRIAL	405	281	494	358	288	305	329	-4.6	7.9	-2.9
MECHANICAL	463	511	524	558	582	636	706	5.4	11.0	6.2
METALLURGICAL/MATERIALS	222	291	265	275	323	305	329	5.4	7.9	5.8
MINING	75	151	147	125	99	89	49	2.9	-44.9	-5.9
NUCLEAR	299	279	202	124	159	143	158	-11.6	10.5	-8.7
PETROLEUM	79	133	112	77	89	73	102	-1.3	39.7	3.7
ENGINEERING, N.E.C.	188	186	139	189	201	228	204	3.3	-10.5	1.2
PHYSICAL SCIENCES	2,245	2,301	2,472	2,271	2,183	2,237	2,276	-.1	1.7	.2
ASTRONOMY	103	106	106	93	103	72	87	-5.8	20.8	-2.4
CHEMISTRY	1,315	1,360	1,426	1,416	1,278	1,354	1,332	.5	-1.6	.2
PHYSICS	825	830	939	756	793	806	850	-.4	5.5	.4
PHYSICAL SCIENCES, N.E.C.	2	5	1	4	9	5	7	16.5	40.0	19.6
ENVIRONMENTAL SCIENCES	952	1,000	1,179	1,066	1,075	1,069	1,118	2.0	4.6	2.3
ATMOSPHERIC SCIENCES	74	78	59	41	30	22	32	-18.3	45.5	-11.3
GEOSCIENCES	574	678	879	676	749	720	761	3.8	5.7	4.1
OCEANOGRAPHY	145	116	123	155	168	177	208	3.4	17.5	5.3
ENVIRONMENTAL SCIENCES, N.E.C.	159	128	118	194	128	150	117	-1.0	-22.0	-4.3
MATHEMATICAL/COMPUTER SCIENCES	1,321	1,280	1,271	1,358	1,253	1,265	1,240	-.7	-2.0	-.9
COMPUTER SCIENCE	327	317	305	423	385	475	485	6.4	2.1	5.8
MATHEMATICS AND APPLIED MATHEMATICS	817	790	825	776	699	680	647	-3.0	-4.9	-3.3
STATISTICS	177	173	141	159	169	110	108	-7.6	-1.8	-6.8
LIFE SCIENCES	16,083	15,368	16,599	17,034	16,979	16,489	15,446	.4	-6.3	-.6
AGRICULTURAL SCIENCES	891	748	808	704	772	814	804	-1.5	-1.2	-1.5
BIOLOGICAL SCIENCES	8,675	8,023	8,163	8,165	8,094	7,900	7,831	-1.5	-.9	-1.5
ANATOMY	352	297	303	297	294	300	263	-2.6	-12.3	-4.1
BIOCHEMISTRY	1,293	1,246	1,202	1,064	1,021	990	978	-4.4	-1.2	-3.9
BIOLOGY	1,569	1,492	1,572	1,523	1,425	1,268	1,231	-3.5	-2.9	-3.4
BIOMETRY/EPIDEMIOLOGY	335	292	317	346	364	430	388	4.2	-9.8	2.1
BIOPHYSICS	286	251	218	215	182	175	161	-7.9	-8.0	-7.9
BOTANY	296	284	301	267	231	224	230	-4.5	2.7	-3.5
CELL BIOLOGY	307	278	335	378	460	461	560	7.0	21.5	9.0
ECOLOGY	84	82	74	82	119	126	111	7.0	-11.9	4.1
ENTOMOLOGY/PARASITOLOGY	130	121	88	130	154	166	149	4.2	-10.2	2.0
GENETICS	339	290	395	336	349	294	304	-2.3	3.4	-1.5
MICROBIOLOGY	1,084	1,000	1,002	991	929	839	879	-4.2	4.8	-3.0
NUTRITION	418	361	407	377	382	360	377	-2.5	4.7	-1.5
PATHOLOGY	411	386	307	343	345	418	356	.3	-14.8	-2.0
PHARMACOLOGY	707	731	752	862	872	892	887	3.9	-.6	3.3
PHYSIOLOGY	700	607	580	561	562	529	480	-4.6	-9.3	-5.2
ZOOLOGY	321	224	218	199	200	197	207	-7.8	5.1	-6.1
BIOSCIENCES, N.E.C.	43	81	92	194	205	231	270	32.3	16.9	30.0
HEALTH SCIENCES	6,517	6,597	7,628	8,165	8,113	7,775	6,811	3.0	-12.4	.6
ANESTHESIOLOGY	55	4	1	3	0	1	2	-48.7	100.0	-37.7
CANCER/ONCOLOGY	35	31	40	34	34	0	43	-100.0	**	3.0
CARDIOLOGY	20	0	3	1	11	0	3	-100.0	**	-23.7
DENTISTRY	220	184	176	184	150	169	224	-4.3	32.5	.3
ENDOCRINOLOGY	14	13	7	20	20	20	30	6.1	50.0	11.5
GASTROENTEROLOGY	11	8	8	0	0	2	7	-24.7	250.0	-6.3
HEMATOLOGY	0	0	1	5	1	2	1	**	-50.0	**
NEUROLOGY	197	185	197	207	180	177	163	-1.8	-7.9	-2.7
NURSING	1,944	2,693	3,749	3,625	3,660	3,634	3,165	10.8	-12.2	7.2
OBSTETRICS/GYNECOLOGY	27	25	14	20	2	6	5	-22.2	-16.7	-21.4
OPHTHALMOLOGY	23	7	6	2	10	6	2	-20.1	-66.7	-29.5
OTORHINOLARYNGOLOGY	38	46	25	14	11	12	12	-17.5	.0	-15.2
PEDIATRICS	71	48	50	68	73	92	62	4.4	-32.6	-1.9
PHARMACEUTICAL SCIENCES	271	232	230	236	231	273	242	.1	-11.4	-1.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,576	1,404	1,320	1,819	1,960	1,828	1,342	2.5	-26.6	-2.3
PSYCHIATRY	60	49	60	49	37	25	44	-13.6	76.0	-4.3
PULMONARY DISEASE	7	0	3	0	13	9	9	4.3	.0	3.7
RADIOLOGY	153	112	116	87	75	109	110	-5.5	.9	-4.6
SPEECH PATHOLOGY/AUDIOLOGY	917	826	882	925	795	783	716	-2.6	-8.6	-3.5
SURGERY	85	81	48	36	41	60	53	-5.6	-11.7	-6.5
VETERINARY SCIENCES	78	77	72	71	85	57	61	-5.1	7.0	-3.5
CLINICAL MEDICINE, N.E.C.	141	64	91	121	127	111	139	-3.9	25.2	-.2
HEALTH RELATED, N.E.C.	574	508	529	638	597	429	376	-4.7	-12.4	-5.9
PSYCHOLOGY	4,476	4,321	4,183	3,600	3,446	3,166	2,927	-5.6	-7.5	-5.9
SOCIAL SCIENCES	9,083	8,577	8,806	9,324	9,338	8,396	7,684	-1.3	-8.5	-2.4
AGRICULTURAL ECONOMICS	250	182	289	149	211	198	203	-3.8	2.5	-2.9
ANTHROPOLOGY	905	899	842	837	815	738	655	-3.3	-11.2	-4.5
ECONOMICS (EXCEPT AGRICULTURAL)	1,570	1,478	1,476	1,390	1,380	1,133	1,121	-5.3	-1.1	-4.7
GEOGRAPHY	278	230	258	199	267	187	199	-6.4	6.4	-4.7
HISTORY AND PHILOSOPHY OF SCIENCE	91	90	68	68	67	57	64	-7.5	12.3	-4.9
LINGUISTICS	369	425	408	543	383	365	368	-.2	.8	*
POLITICAL SCIENCE	1,932	1,808	1,873	2,267	2,585	2,440	2,260	4.0	-7.4	2.3
SOCIOLOGY	1,357	1,209	1,092	1,179	1,040	995	933	-5.0	-6.2	-5.2
SOCIOLOGY/ANTHROPOLOGY	115	128	78	95	61	43	51	-15.1	18.6	-11.0
SOCIAL SCIENCES, N.E.C.	2,216	2,128	2,422	2,597	2,529	2,240	1,830	.2	-18.3	-2.7

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	20,271	18,899	19,686	19,310	18,443	16,747	14,544	-3.1	-13.2	-4.6
ENGINEERING	1,663	1,530	1,523	1,163	1,041	940	970	-9.1	3.2	-7.4
AEROSPACE	16	20	13	16	28	45	49	18.8	8.9	17.3
AGRICULTURAL	27	11	21	9	7	8	0	-18.4	-100.0	-100.0
BIOMEDICAL	146	138	100	139	113	77	55	-10.1	-28.6	-13.0
CHEMICAL	178	218	245	139	142	129	157	-5.2	21.7	-1.8
CIVIL	547	355	303	183	193	130	113	-21.3	-13.1	-20.2
ELECTRICAL	201	159	136	132	111	110	128	-9.6	16.4	-6.2
ENGINEERING SCIENCE	29	19	31	32	37	92	107	21.2	16.3	20.5
INDUSTRIAL	82	76	205	142	54	72	67	-2.1	-6.9	-2.8
MECHANICAL	143	161	148	98	89	81	96	-9.0	18.5	-5.5
METALLURGICAL/MATERIALS	63	106	101	111	101	71	77	2.0	8.5	2.9
MINING	49	86	108	97	66	47	18	-.7	-61.7	-13.3
NUCLEAR	141	117	55	18	28	29	45	-23.2	55.2	-15.1
PETROLEUM	25	34	31	9	23	7	10	-19.1	42.9	-12.3
ENGINEERING, N.E.C.	16	30	26	38	49	42	48	17.5	14.3	17.0
PHYSICAL SCIENCES	556	529	544	586	525	503	465	-1.7	-7.6	-2.5
ASTRONOMY	18	22	21	19	24	13	11	-5.3	-15.4	-6.8
CHEMISTRY	388	359	351	401	338	347	325	-1.8	-6.3	-2.5
PHYSICS	148	147	171	166	156	142	128	-.7	-9.9	-2.1
PHYSICAL SCIENCES, N.E.C.	2	1	1	0	7	1	1	-10.9	.0	-9.4
ENVIRONMENTAL SCIENCES	325	342	435	459	429	330	269	.3	-18.5	-2.7
ATMOSPHERIC SCIENCES	32	34	28	14	13	9	9	-19.1	.0	-16.6
GEOSCIENCES	152	220	290	264	288	202	143	4.9	-29.2	-.9
OCEANOGRAPHY	41	36	59	58	58	50	58	3.4	16.0	5.1
ENVIRONMENTAL SCIENCES, N.E.C.	100	72	58	123	70	69	59	-6.0	-14.5	-7.3
MATHEMATICAL/COMPUTER SCIENCES	270	249	256	231	237	158	161	-8.5	1.9	-7.1
COMPUTER SCIENCE	75	78	91	74	96	62	61	-3.1	-1.6	-2.9
MATHEMATICS AND APPLIED MATHEMATICS	133	119	118	132	126	87	86	-6.8	-1.1	-6.0
STATISTICS	62	52	47	25	15	9	14	-27.5	55.6	-19.2
LIFE SCIENCES	11,224	10,465	11,539	12,078	11,765	11,018	9,674	-.3	-12.2	-2.1
AGRICULTURAL SCIENCES	222	150	160	156	160	135	157	-8.0	16.3	-4.8
BIOLOGICAL SCIENCES	5,893	4,945	5,100	5,148	4,802	4,599	4,410	-4.0	-4.1	-4.1
ANATOMY	237	175	180	159	138	143	115	-8.1	-19.6	-9.8
BIOCHEMISTRY	889	755	800	676	657	604	595	-6.2	-1.5	-5.6
BIOLOGY	945	780	864	916	800	757	730	-3.6	-3.6	-3.6
BIOMETRY/EPIDEMIOLOGY	259	208	213	283	303	332	273	4.2	-17.8	.8
BIOPHYSICS	224	210	174	177	154	122	124	-9.6	1.6	-8.1
BOTANY	76	59	77	61	54	66	38	-2.3	-42.4	-9.4
CELL BIOLOGY	229	194	252	289	336	364	386	8.0	6.0	7.7
ECOLOGY	33	37	30	23	41	45	35	5.3	-22.2	.8
ENTOMOLOGY/PARASITOLOGY	77	54	34	34	47	32	35	-13.6	9.4	-10.7
GENETICS	283	223	313	280	256	215	229	-4.5	6.5	-3.0
MICROBIOLOGY	805	675	677	653	548	439	484	-9.6	10.3	-7.0
NUTRITION	244	184	216	185	159	124	124	-10.7	.0	-9.2
PATHOLOGY	288	245	185	189	189	200	186	-5.9	-7.0	-6.1
PHARMACOLOGY	549	557	543	620	596	585	558	1.1	-4.6	.2
PHYSIOLOGY	523	418	377	377	338	336	289	-7.1	-14.0	-8.1
ZOOLOGY	200	129	113	131	98	113	96	-9.1	-15.0	-10.0
BIOSCIENCES, N.E.C.	32	42	52	95	88	122	113	25.0	-7.4	19.8
HEALTH SCIENCES	5,109	5,370	6,279	6,774	6,803	6,284	5,107	3.5	-18.7	*
ANESTHESIOLOGY	5	1	0	0	0	0	0	-100.0	**	-100.0
CANCER/ONCOLOGY	34	30	40	33	33	0	42	-100.0	**	3.1
CARDIOLOGY	17	0	2	1	1	0	3	-100.0	**	-21.9
DENTISTRY	110	77	56	77	60	39	58	-15.9	48.7	-8.7
ENDOCRINOLOGY	13	10	6	7	8	10	12	-4.3	20.0	-1.1
GASTROENTEROLOGY	8	6	5	0	0	0	1	-100.0	**	-25.7
HEMATOLOGY	0	0	0	0	0	2	0	**	-100.0	**
NEUROLOGY	157	139	130	142	135	124	112	-3.9	-9.7	-4.7
NURSING	1,869	2,594	3,560	3,414	3,506	3,458	2,937	10.8	-15.1	6.7
OBSTETRICS/GYNECOLOGY	12	6	11	12	2	2	3	-25.8	50.0	-18.0
OPHTHALMOLOGY	10	6	6	2	10	4	0	-14.2	-100.0	-100.0
OTORHINOLARYNGOLOGY	26	21	7	4	2	2	1	-34.8	-50.0	-37.2
PEDIATRICS	47	35	39	58	55	73	40	7.6	-45.2	-2.3
PHARMACEUTICAL SCIENCES	166	125	132	92	74	87	72	-10.2	-17.2	-11.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,318	1,189	1,097	1,661	1,739	1,559	1,027	2.8	-34.1	-3.5
PSYCHIATRY	33	27	41	25	9	6	9	-24.7	50.0	-16.9
PULMONARY DISEASE	5	0	0	0	2	3	4	-8.2	33.3	-3.1
RADIOLOGY	85	60	63	49	47	56	62	-6.7	10.7	-4.4
SPEECH PATHOLOGY/AUDIOLOGY	650	599	645	641	569	489	423	-4.6	-13.5	-6.0
SURGERY	28	20	8	1	3	9	5	-17.2	-44.4	-21.8
VETERINARY SCIENCES	30	28	16	13	18	14	15	-11.9	7.1	-9.4
CLINICAL MEDICINE, N.E.C.	57	12	14	32	51	30	47	-10.1	56.7	-2.7
HEALTH RELATED, N.E.C.	429	385	401	510	479	317	234	-4.9	-26.2	-8.3
PSYCHOLOGY	2,924	2,788	2,582	1,959	1,782	1,466	1,126	-10.9	-23.2	-12.7
SOCIAL SCIENCES	3,309	2,976	2,807	2,834	2,664	2,332	1,879	-5.7	-19.4	-7.8
AGRICULTURAL ECONOMICS	104	79	81	40	50	56	48	-9.8	-14.3	-10.5
ANTHROPOLOGY	417	399	342	278	261	222	176	-10.0	-20.7	-11.6
ECONOMICS (EXCEPT AGRICULTURAL)	273	226	229	193	196	169	120	-7.7	-29.0	-11.1
GEOGRAPHY	59	40	48	31	34	22	30	-15.2	36.4	-9.2
HISTORY AND PHILOSOPHY OF SCIENCE	15	13	8	13	14	4	9	-19.8	125.0	-7.0
LINGUISTICS	104	98	80	77	79	89	73	-2.6	-18.0	-4.9
POLITICAL SCIENCE	363	352	349	551	408	395	352	1.4	-10.9	-.4
SOCIOLOGY	693	538	405	363	314	267	228	-14.7	-14.6	-14.7
SOCIOLOGY/ANTHROPOLOGY	39	28	6	20	20	5	5	-29.0	.0	-25.4
SOCIAL SCIENCES, N.E.C.	1,242	1,203	1,259	1,268	1,288	1,103	838	-2.0	-24.0	-5.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED FELLOWSHIPS AND TRAINEESHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	18,541	18,586	19,517	19,756	20,466	20,932	21,592	2.0	3.2	2.2
ENGINEERING	2,989	3,108	3,170	3,250	3,594	4,117	4,475	5.5	8.7	5.9
AEROSPACE	105	87	79	74	77	85	98	-3.5	15.3	-1.0
AGRICULTURAL	29	27	65	62	77	39	70	5.1	79.5	13.4
BIOMEDICAL	45	55	32	55	40	66	66	6.6	.0	5.6
CHEMICAL	493	527	546	548	565	668	864	5.2	29.3	8.3
CIVIL	432	449	462	562	610	713	700	8.7	-1.8	7.1
ELECTRICAL	568	608	643	619	753	989	1,031	9.7	4.2	8.9
ENGINEERING SCIENCE	105	133	134	137	141	127	130	3.2	2.4	3.1
INDUSTRIAL	323	205	289	216	234	233	262	-5.3	12.4	-2.9
MECHANICAL	320	350	376	460	493	555	610	9.6	9.9	9.7
METALLURGICAL/MATERIALS	159	185	164	164	222	234	252	6.7	7.7	6.8
MINING	26	65	39	28	33	42	31	8.3	-26.2	2.5
NUCLEAR	158	162	147	106	131	114	113	-5.3	-.9	-4.7
PETROLEUM	54	99	81	68	66	66	92	3.4	39.4	7.9
ENGINEERING, N.E.C.	172	156	113	151	152	186	156	1.3	-16.1	-1.4
PHYSICAL SCIENCES	1,689	1,772	1,928	1,685	1,658	1,734	1,811	.4	4.4	1.0
ASTRONOMY	85	84	85	76	79	59	76	-5.9	28.8	-1.6
CHEMISTRY	927	1,001	1,075	1,015	940	1,007	1,007	1.4	.0	1.2
PHYSICS	677	683	768	590	637	664	722	-.3	8.7	.9
PHYSICAL SCIENCES, N.E.C.	0	4	0	4	2	4	6	**	50.0	**
ENVIRONMENTAL SCIENCES	627	638	744	607	646	739	849	2.8	14.9	4.4
ATMOSPHERIC SCIENCES	42	44	31	27	17	13	23	-17.8	76.9	-8.2
GEOSCIENCES	422	458	589	412	461	518	618	3.5	19.3	5.6
OCEANOGRAPHY	104	80	64	97	110	127	150	3.4	18.1	5.4
ENVIRONMENTAL SCIENCES, N.E.C.	59	56	60	71	58	81	58	5.4	-28.4	-.2
MATHEMATICAL/COMPUTER SCIENCES	1,051	1,031	1,015	1,127	1,016	1,107	1,079	.9	-2.5	.4
COMPUTER SCIENCE	252	239	214	349	289	413	424	8.6	2.7	7.7
MATHEMATICS AND APPLIED MATHEMATICS	684	671	707	644	573	593	561	-2.4	-5.4	-2.8
STATISTICS	115	121	94	134	154	101	94	-2.1	-6.9	-2.8
LIFE SCIENCES	4,859	4,903	5,060	4,956	5,214	5,471	5,772	2.0	5.5	2.5
AGRICULTURAL SCIENCES	669	598	648	548	612	679	647	.2	-4.7	-.5
BIOLOGICAL SCIENCES	2,782	3,078	3,063	3,017	3,292	3,301	3,421	2.9	3.6	3.0
ANATOMY	115	122	123	138	156	157	148	5.3	-5.7	3.7
BIOCHEMISTRY	404	491	402	388	364	386	383	-.8	-.8	-.8
BIOLOGY	624	712	708	607	625	511	501	-3.3	-2.0	-3.1
BIOMETRY/EPIDEMIOLOGY	76	84	104	63	61	98	115	4.3	17.3	6.1
BIOPHYSICS	62	41	44	38	28	53	37	-2.6	-30.2	-7.1
BOTANY	220	225	224	206	177	158	192	-5.4	21.5	-1.9
CELL BIOLOGY	78	84	83	89	124	97	174	3.7	79.4	12.1
ECOLOGY	51	45	44	59	78	81	76	8.0	-6.2	5.9
ENTOMOLOGY/PARASITOLOGY	53	67	54	96	107	134	114	16.7	-14.9	11.6
GENETICS	56	67	82	56	93	79	75	5.9	-5.1	4.3
MICROBIOLOGY	279	325	325	338	381	400	395	6.2	-1.3	5.1
NUTRITION	174	177	191	192	223	236	253	5.2	7.2	5.5
PATHOLOGY	123	141	122	154	156	218	170	10.0	-22.0	4.7
PHARMACOLOGY	158	174	209	242	276	307	329	11.7	7.2	11.0
PHYSIOLOGY	177	189	203	184	224	193	191	1.5	-1.0	1.1
ZOOLOGY	121	95	105	68	102	84	111	-5.9	32.1	-1.2
BIOSCIENCES, N.E.C.	11	39	40	99	117	109	157	46.6	44.0	46.2
HEALTH SCIENCES	1,408	1,227	1,349	1,391	1,310	1,491	1,704	1.0	14.3	2.8
ANESTHESIOLOGY	50	3	1	3	0	1	2	-47.9	100.0	-36.9
CANCER/ONCOLOGY	1	1	0	1	1	0	1	-100.0	**	.0
CARDIOLOGY	3	0	1	0	10	0	0	-100.0	**	-100.0
DENTISTRY	110	107	120	107	90	130	166	2.8	27.7	6.1
ENDOCRINOLOGY	1	3	1	13	12	10	18	46.8	80.0	51.1
GASTROENTEROLOGY	3	2	3	0	0	2	6	-6.5	200.0	10.4
HEMATOLOGY	0	0	1	5	1	0	1	**	**	**
NEUROLOGY	40	46	67	65	45	53	51	4.8	-3.8	3.5
NURSING	75	99	189	211	154	146	228	11.7	56.2	17.2
OBSTETRICS/GYNECOLOGY	15	19	3	8	0	4	2	-19.8	-50.0	-25.0
OPHTHALMOLOGY	13	1	0	0	0	2	2	-26.8	.0	-23.5
OTORHINOLARYNGOLOGY	12	25	18	10	9	10	11	-3.0	10.0	-1.2
PEDIATRICS	24	13	11	10	18	19	22	-3.8	15.8	-1.2
PHARMACEUTICAL SCIENCES	105	107	98	144	157	186	170	10.0	-8.6	7.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	258	215	223	158	221	269	315	.7	17.1	2.9
PSYCHIATRY	27	22	19	24	28	19	35	-5.7	84.2	3.8
PULMONARY DISEASE	2	0	3	0	11	6	5	20.1	-16.7	14.0
RADIOLOGY	68	52	53	38	28	53	48	-4.1	-9.4	-4.9
SPEECH PATHOLOGY/AUDIOLOGY	267	227	237	284	226	294	293	1.6	-.3	1.3
SURGERY	57	61	40	35	38	51	48	-1.8	-5.9	-2.4
VETERINARY SCIENCES	48	49	56	58	67	43	46	-1.8	7.0	-.6
CLINICAL MEDICINE, N.E.C.	84	52	77	89	76	81	92	-.6	13.6	1.3
HEALTH RELATED, N.E.C.	145	123	128	128	118	112	142	-4.2	26.8	-.3
PSYCHOLOGY	1,552	1,533	1,601	1,641	1,664	1,700	1,801	1.5	5.9	2.1
SOCIAL SCIENCES	5,774	5,601	5,999	6,490	6,674	6,064	5,805	.8	-4.3	.1
AGRICULTURAL ECONOMICS	146	103	208	109	161	142	155	-.5	9.2	.9
ANTHROPOLOGY	488	500	500	559	554	516	479	.9	-7.2	-.3
ECONOMICS (EXCEPT AGRICULTURAL)	1,297	1,252	1,247	1,197	1,184	964	1,001	-4.8	3.8	-3.6
GEOGRAPHY	219	190	210	168	233	165	169	-4.6	2.4	-3.6
HISTORY AND PHILOSOPHY OF SCIENCE	76	77	60	55	53	53	55	-5.8	3.8	-4.5
LINGUISTICS	265	327	328	466	304	276	295	.7	6.9	1.5
POLITICAL SCIENCE	1,569	1,456	1,524	1,716	2,177	2,045	1,908	4.5	-6.7	2.8
SOCIOLOGY	664	671	687	816	726	728	705	1.5	-3.2	.9
SOCIOLOGY/ANTHROPOLOGY	76	100	72	75	41	38	46	-10.9	21.1	-6.9
SOCIAL SCIENCES, N.E.C.	974	925	1,163	1,329	1,241	1,137	992	2.6	-12.8	.3

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT HAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	40,136	42,717	43,896	48,410	50,815	51,954	52,094	4.4	0.3	3.8
ENGINEERING	10,987	11,352	11,899	12,868	13,971	14,444	14,626	4.7	1.3	4.2
AEROSPACE	512	484	497	503	580	583	617	2.2	5.8	2.7
AGRICULTURAL	296	276	309	347	362	398	427	5.1	7.3	5.4
BIOMEDICAL	203	191	200	206	215	253	304	3.7	20.2	5.9
CHEMICAL	1,301	1,381	1,395	1,626	1,845	2,018	2,097	7.6	3.9	7.1
CIVIL	1,718	1,864	2,015	2,021	2,207	2,228	2,107	4.4	-5.4	3.0
ELECTRICAL	2,183	2,153	2,435	2,589	2,830	2,860	2,933	4.6	2.6	4.3
ENGINEERING SCIENCE	468	444	400	443	451	508	520	1.4	2.4	1.5
INDUSTRIAL	516	478	457	541	585	540	540	.8	.0	.7
MECHANICAL	1,636	1,778	1,762	1,963	2,045	2,134	2,196	4.5	2.9	4.3
METALLURGICAL/MATERIALS	1,070	1,105	1,150	1,319	1,390	1,553	1,512	6.4	-2.6	5.2
MINING	111	128	119	78	120	161	137	6.4	-14.9	3.1
NUCLEAR	473	471	507	536	508	480	412	.2	-14.2	-2.0
PETROLEUM	63	74	92	118	104	118	100	11.0	-15.3	6.8
ENGINEERING, N.E.C.	437	525	561	578	729	610	724	5.7	18.7	7.5
PHYSICAL SCIENCES	6,441	6,784	6,806	7,710	8,260	8,525	8,695	4.8	2.0	4.4
ASTRONOMY	278	279	264	272	270	263	250	-.9	-4.9	-1.5
CHEMISTRY	3,233	3,521	3,597	4,085	4,541	4,732	4,841	6.6	2.3	5.9
PHYSICS	2,899	2,964	2,926	3,337	3,445	3,515	3,578	3.3	1.8	3.1
PHYSICAL SCIENCES, N.E.C.	31	20	19	16	4	15	26	-11.4	73.3	-2.5
ENVIRONMENTAL SCIENCES	2,838	3,177	3,219	3,505	3,625	3,360	3,258	2.9	-3.0	2.0
ATMOSPHERIC SCIENCES	419	437	450	483	498	460	462	1.6	.4	1.4
GEOSCIENCES	1,368	1,633	1,625	1,886	1,997	1,788	1,760	4.6	-1.6	3.7
OCEANOGRAPHY	801	821	823	814	800	791	780	-.2	-1.4	-.4
ENVIRONMENTAL SCIENCES, N.E.C.	250	286	321	322	330	321	256	4.3	-20.2	.3
MATHEMATICAL/COMPUTER SCIENCES	1,375	1,528	1,504	1,615	1,790	1,797	2,017	4.6	12.2	5.6
COMPUTER SCIENCE	746	782	781	861	1,065	1,087	1,251	6.5	15.1	7.7
MATHEMATICS AND APPLIED MATHEMATICS	366	458	417	463	441	438	473	3.0	8.0	3.7
STATISTICS	263	288	306	291	284	272	293	.6	7.7	1.6
LIFE SCIENCES	11,322	12,603	13,081	15,027	15,513	15,930	15,978	5.9	.3	5.0
AGRICULTURAL SCIENCES	3,710	3,964	4,074	4,428	4,523	4,660	4,613	3.9	-1.0	3.2
BIOLOGICAL SCIENCES	6,787	7,687	7,992	9,208	9,517	9,775	9,819	6.3	.5	5.4
ANATOMY	64	95	104	163	142	138	142	13.7	2.9	12.1
BIOCHEMISTRY	1,038	1,205	1,239	1,480	1,451	1,546	1,633	6.9	5.6	6.7
BIOLOGY	851	1,054	953	1,153	1,304	1,317	1,262	7.5	-4.2	5.8
BIOMETRY/EPIDEMIOLOGY	62	83	89	88	117	100	99	8.3	-1.0	6.9
BIOPHYSICS	163	167	189	174	161	124	133	-4.5	7.3	-2.9
BOTANY	999	1,092	1,164	1,249	1,265	1,240	1,309	3.7	5.6	3.9
CELL BIOLOGY	82	100	138	179	180	232	265	18.9	14.2	18.2
ECOLOGY	157	212	269	247	272	221	233	5.9	5.4	5.8
ENTOMOLOGY/PARASITOLOGY	656	662	674	819	890	806	764	3.5	-5.2	2.2
GENETICS	138	159	165	191	235	252	260	10.4	3.2	9.5
MICROBIOLOGY	664	750	755	890	941	1,049	1,088	7.9	3.7	7.3
NUTRITION	775	889	980	1,066	1,135	1,113	1,066	6.2	-4.2	4.7
PATHOLOGY	84	107	106	171	166	177	206	13.2	16.4	13.7
PHARMACOLOGY	268	277	320	389	349	438	410	8.5	-6.4	6.3
PHYSIOLOGY	292	341	404	393	417	461	432	7.9	-6.3	5.8
ZOOLOGY	474	474	443	479	380	438	379	-1.3	-13.5	-3.1
BIOSCIENCES, N.E.C.	20	20	20	77	112	123	138	35.4	12.2	31.8
HEALTH SCIENCES	825	952	1,015	1,391	1,473	1,495	1,546	10.4	3.4	9.4
ANESTHESIOLOGY	0	1	0	0	0	0	0	**	**	**
CANCER/ONCOLOGY	20	10	9	10	9	0	12	-100.0	**	-7.0
CARDIOLOGY	1	0	0	2	6	3	0	20.1	-100.0	-100.0
DENTISTRY	9	22	12	26	28	11	12	3.4	9.1	4.2
ENDOCRINOLOGY	6	2	3	7	10	12	10	12.2	-16.7	7.6
GASTROENTEROLOGY	0	0	0	0	0	1	0	**	-100.0	**
HEMATOLOGY	0	1	4	0	1	1	0	**	-100.0	**
NEUROLOGY	53	44	51	71	72	50	85	-1.0	70.0	7.0
NURSING	13	10	28	75	101	107	128	42.1	19.6	38.6
OBSTETRICS/GYNECOLOGY	11	14	7	8	0	0	8	-100.0	**	-4.4
OPHTHALMOLOGY	0	0	1	0	3	7	11	**	57.1	**
OTORHINOLARYNGOLOGY	2	7	6	4	0	3	4	7.0	33.3	10.4
PEDIATRICS	7	7	3	0	0	0	6	-100.0	**	-2.2
PHARMACEUTICAL SCIENCES	185	223	256	392	400	408	376	14.1	-7.8	10.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	110	113	99	162	185	232	202	13.2	-12.9	9.1
PSYCHIATRY	6	2	0	20	8	14	5	15.2	-64.3	-2.6
PULMONARY DISEASE	0	0	0	0	0	0	1	**	**	**
RADIOLOGY	67	76	36	31	45	26	35	-14.6	34.6	-8.9
SPEECH PATHOLOGY/AUDIOLOGY	164	206	235	235	271	249	308	7.2	23.7	9.4
SURGERY	4	10	9	0	4	8	4	12.2	-50.0	.0
VETERINARY SCIENCES	114	134	183	172	157	167	161	6.6	-3.6	5.1
CLINICAL MEDICINE, N.E.C.	9	19	22	37	31	35	53	25.4	51.4	28.8
HEALTH RELATED, N.E.C.	44	51	51	139	142	161	125	24.1	-22.4	16.1
PSYCHOLOGY	2,213	2,248	2,300	2,335	2,336	2,661	2,521	3.1	-5.3	1.9
SOCIAL SCIENCES	4,960	5,025	5,087	5,350	5,320	5,237	4,999	.9	-4.5	.1
AGRICULTURAL ECONOMICS	889	868	952	979	962	936	848	-.9	-9.4	-.7
ANTHROPOLOGY	378	339	392	375	349	303	314	-3.6	3.6	-2.6
ECONOMICS (EXCEPT AGRICULTURAL)	1,181	1,202	1,174	1,180	1,185	1,153	1,052	-.4	-8.8	-1.6
GEOGRAPHY	218	256	233	216	256	232	214	1.0	-7.8	-.3
HISTORY AND PHILOSOPHY OF SCIENCE	2	10	12	11	14	16	11	41.4	-31.3	27.6
LINGUISTICS	103	142	104	135	139	180	130	9.8	-27.8	3.4
POLITICAL SCIENCE	760	754	686	860	804	823	852	1.3	3.5	1.6
SOCIOLOGY	734	844	806	750	743	747	636	.3	-14.9	-2.0
SOCIOLOGY/ANTHROPOLOGY	143	98	94	96	81	115	129	-3.6	12.2	-1.5
SOCIAL SCIENCES, N.E.C.	552	512	634	748	787	732	813	4.8	11.1	5.7

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT HAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	23,077	24,420	25,179	27,841	29,080	28,944	28,178	3.8	-2.6	2.9
ENGINEERING	6,935	7,228	7,563	8,018	8,520	8,524	8,569	3.5	.5	3.1
AEROSPACE	385	330	366	355	375	399	469	.6	17.5	2.9
AGRICULTURAL	93	80	127	114	110	131	138	5.9	5.3	5.8
BIOMEDICAL	117	122	104	129	110	123	168	.8	36.6	5.3
CHEMICAL	805	845	860	910	1,056	1,091	1,084	5.2	-.6	4.3
CIVIL	902	1,022	1,078	1,117	1,244	1,088	1,066	3.2	-2.0	2.4
ELECTRICAL	1,697	1,665	1,828	1,875	1,964	1,957	2,051	2.4	4.8	2.7
ENGINEERING SCIENCE	369	331	240	355	369	391	356	1.0	-9.0	-.5
INDUSTRIAL	220	172	212	230	257	234	188	1.0	-19.7	-2.2
MECHANICAL	1,045	1,185	1,189	1,273	1,240	1,283	1,275	3.5	-.6	2.9
METALLURGICAL/MATERIALS	760	823	836	1,013	1,017	1,128	1,058	6.8	-6.2	4.8
MINING	70	93	80	58	87	109	73	7.7	-33.0	.6
NUCLEAR	191	216	248	260	233	238	223	3.7	-6.3	2.2
PETROLEUM	12	18	39	40	44	45	37	24.6	-17.8	17.5
ENGINEERING, N.E.C.	269	326	356	289	414	307	383	2.2	24.8	5.2
PHYSICAL SCIENCES	5,487	5,684	5,768	6,459	6,949	7,253	7,067	4.8	-2.6	3.7
ASTRONOMY	235	247	223	225	236	229	202	-.4	-11.8	-2.1
CHEMISTRY	2,664	2,827	2,883	3,285	3,733	3,864	3,905	6.4	1.1	5.6
PHYSICS	2,580	2,604	2,648	2,940	2,976	3,158	2,956	3.4	-6.4	2.0
PHYSICAL SCIENCES, N.E.C.	8	6	14	9	4	2	4	-20.6	100.0	-9.4
ENVIRONMENTAL SCIENCES	2,089	2,274	2,307	2,665	2,663	2,358	2,286	2.0	-3.1	1.3
ATMOSPHERIC SCIENCES	334	394	420	457	454	411	412	3.5	.2	3.0
GEOSCIENCES	1,017	1,130	1,157	1,408	1,439	1,181	1,171	2.5	-.8	2.0
OCEANOGRAPHY	587	572	562	610	582	553	543	-1.0	-1.8	-1.1
ENVIRONMENTAL SCIENCES, N.E.C.	151	178	168	190	188	213	160	5.9	-24.9	.8
MATHEMATICAL/COMPUTER SCIENCES	752	795	877	1,002	1,095	1,052	1,142	5.8	8.6	6.2
COMPUTER SCIENCE	452	425	511	623	717	726	805	8.2	10.9	8.6
MATHEMATICS AND APPLIED MATHEMATICS	203	249	225	268	259	244	234	3.1	-4.1	2.1
STATISTICS	97	121	141	111	119	82	103	-2.8	25.6	.9
LIFE SCIENCES	5,373	6,048	6,172	7,076	7,489	7,456	7,236	5.6	-3.0	4.3
AGRICULTURAL SCIENCES	1,334	1,349	1,410	1,460	1,546	1,477	1,434	1.7	-2.9	1.0
BIOLOGICAL SCIENCES	3,558	4,194	4,229	4,969	5,311	5,325	5,181	7.0	-2.7	5.5
ANATOMY	30	56	62	77	80	78	83	17.3	6.4	15.6
BIOCHEMISTRY	663	844	865	1,033	1,030	1,125	1,170	9.2	4.0	8.5
BIOLOGY	530	711	608	787	918	871	807	8.6	-7.3	6.2
BIOMETRY/EPIDEMIOLOGY	46	53	60	53	81	63	50	5.4	-20.6	1.2
BIOPHYSICS	124	128	143	126	106	95	85	-4.3	-10.5	-5.1
BOTANY	359	406	451	504	535	449	507	3.8	12.9	5.1
CELL BIOLOGY	66	53	94	137	142	177	201	17.9	13.6	17.2
ECOLOGY	87	109	125	141	148	112	111	4.3	-.9	3.5
ENTOMOLOGY/PARASITOLOGY	238	246	239	215	287	258	218	1.4	-15.5	-1.2
GENETICS	87	86	80	92	127	121	121	5.7	.0	4.8
MICROBIOLOGY	424	492	462	620	672	695	665	8.6	-4.3	6.6
NUTRITION	297	349	339	395	425	411	378	5.6	-8.0	3.5
PATHOLOGY	46	48	53	84	91	103	106	14.4	2.9	12.7
PHARMACOLOGY	148	146	178	197	171	215	188	6.4	-12.6	3.5
PHYSIOLOGY	149	166	217	191	225	273	226	10.6	-17.2	6.1
ZOOLOGY	261	296	245	287	240	220	199	-2.8	-9.5	-3.8
BIOSCIENCES, N.E.C.	3	5	8	30	33	59	66	64.3	11.9	55.5
HEALTH SCIENCES	481	505	533	647	632	654	621	5.3	-5.0	3.7
ANESTHESIOLOGY	0	1	0	0	0	0	0	**	**	**
CANCER/ONCOLOGY	20	10	9	10	9	0	12	-100.0	**	-7.0
CARDIOLOGY	1	0	0	2	3	0	0	-100.0	**	-100.0
DENTISTRY	2	4	5	9	5	8	0	26.0	-100.0	-100.0
ENDOCRINOLOGY	3	2	3	6	10	12	10	26.0	-16.7	18.8
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	44	37	39	59	53	40	64	-1.6	60.0	5.5
NURSING	1	1	11	36	34	48	32	90.6	-33.3	64.1
OBSTETRICS/GYNECOLOGY	8	14	6	6	0	0	6	-100.0	**	-4.0
OPHTHALMOLOGY	0	0	0	0	0	7	11	**	57.1	**
OTORHINOLARYNGOLOGY	2	5	5	4	0	3	4	7.0	33.3	10.4
PEDIATRICS	6	7	2	0	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	113	155	157	181	193	219	199	11.7	-9.1	8.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	59	53	51	82	92	75	44	4.1	-41.3	-4.1
PSYCHIATRY	6	1	0	20	7	11	5	10.6	-54.5	-2.6
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	52	47	24	18	25	16	19	-17.8	18.8	-13.4
SPEECH PATHOLOGY/AUDIOLOGY	87	90	118	111	114	114	112	4.6	-1.8	3.7
SURGERY	1	8	9	0	2	7	2	38.3	-71.4	10.4
VETERINARY SCIENCES	42	29	53	54	44	49	38	2.6	-22.4	-1.4
CLINICAL MEDICINE, N.E.C.	4	11	13	14	11	8	30	12.2	275.0	33.4
HEALTH RELATED, N.E.C.	30	30	28	35	30	37	33	3.6	-10.8	1.4
PSYCHOLOGY	1,006	974	1,035	1,152	914	1,023	903	.3	-11.7	-1.5
SOCIAL SCIENCES	1,435	1,417	1,457	1,469	1,450	1,278	975	-1.9	-23.7	-5.4
AGRICULTURAL ECONOMICS	310	294	373	338	364	359	305	2.5	-15.0	-.2
ANTHROPOLOGY	156	118	114	128	102	123	90	-3.9	-26.8	-7.6
ECONOMICS (EXCEPT AGRICULTURAL)	301	241	272	290	286	177	122	-8.5	-31.1	-12.1
GEOGRAPHY	58	79	66	64	78	71	66	3.4	-7.0	1.9
HISTORY AND PHILOSOPHY OF SCIENCE	0	3	5	2	1	0	0	**	**	**
LINGUISTICS	40	80	45	44	45	50	33	3.8	-34.0	-2.7
POLITICAL SCIENCE	78	90	89	100	84	42	54	-9.8	28.6	-5.1
SOCIOLOGY	288	292	290	304	315	316	197	1.6	-37.7	-5.3
SOCIOLOGY/ANTHROPOLOGY	20	19	23	18	17	10	10	-10.9	.0	-9.4
SOCIAL SCIENCES, N.E.C.	184	201	181	181	155	130	98	-5.6	-24.6	-8.6

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED RESEARCH ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	17,059	18,297	18,717	20,569	21,735	23,010	23,916	5.1	3.9	4.9
ENGINEERING	4,052	4,124	4,336	4,850	5,451	5,920	6,057	6.5	2.3	5.9
AEROSPACE	127	154	131	148	205	184	148	6.4	-19.6	2.2
AGRICULTURAL	203	196	182	233	252	267	289	4.7	8.2	5.2
BIOMEDICAL	86	69	96	77	105	130	136	7.1	4.6	6.8
CHEMICAL	496	536	535	716	789	927	1,013	11.0	9.3	10.7
CIVIL	816	842	937	904	963	1,140	1,041	5.7	-8.7	3.5
ELECTRICAL	486	488	607	714	866	903	882	10.9	-2.3	8.9
ENGINEERING SCIENCE	99	113	160	88	82	117	164	2.8	40.2	7.5
INDUSTRIAL	296	306	245	311	328	306	352	.6	15.0	2.5
MECHANICAL	591	593	573	690	805	851	921	6.3	8.2	6.5
METALLURGICAL/MATERIALS	310	282	314	306	373	425	454	5.4	6.8	5.6
MINING	41	35	39	20	33	52	64	4.0	23.1	6.6
NUCLEAR	282	255	259	276	275	242	189	-2.5	-21.9	-5.6
PETROLEUM	51	56	53	78	60	73	63	6.2	-13.7	3.1
ENGINEERING, N.E.C.	168	199	205	289	315	303	341	10.3	12.5	10.6
PHYSICAL SCIENCES	954	1,100	1,038	1,251	1,311	1,272	1,628	4.9	28.0	7.9
ASTRONOMY	43	32	41	47	34	34	48	-3.8	41.2	1.6
CHEMISTRY	569	694	714	800	808	868	936	7.3	7.8	7.4
PHYSICS	319	360	278	397	469	357	622	1.9	74.2	10.0
PHYSICAL SCIENCES, N.E.C.	23	14	5	7	0	13	22	-9.1	69.2	-.6
ENVIRONMENTAL SCIENCES	749	903	912	840	962	1,002	972	5.0	-3.0	3.8
ATMOSPHERIC SCIENCES	85	43	30	26	44	49	50	-8.8	2.0	-7.3
GEOSCIENCES	351	503	468	478	558	607	589	9.6	-3.0	7.7
OCEANOGRAPHY	214	249	261	204	218	238	237	1.8	-.4	1.5
ENVIRONMENTAL SCIENCES, N.E.C.	99	108	153	132	142	108	96	1.5	-11.1	-.4
MATHEMATICAL/COMPUTER SCIENCES	623	733	627	613	695	745	875	3.0	17.4	5.0
COMPUTER SCIENCE	294	357	270	238	348	361	446	3.5	23.5	6.1
MATHEMATICS AND APPLIED MATHEMATICS	163	209	192	195	182	194	239	2.9	23.2	5.6
STATISTICS	166	167	165	180	165	190	190	2.3	.0	1.9
LIFE SCIENCES	5,949	6,555	6,909	7,951	8,024	8,474	8,742	6.1	3.2	5.7
AGRICULTURAL SCIENCES	2,376	2,615	2,664	2,968	2,977	3,183	3,179	5.0	-.1	4.2
BIOLOGICAL SCIENCES	3,229	3,493	3,763	4,239	4,206	4,450	4,638	5.5	4.2	5.3
ANATOMY	34	39	42	86	62	60	59	9.9	-1.7	8.2
BIOCHEMISTRY	375	361	374	447	421	421	463	1.9	10.0	3.1
BIOLOGY	321	343	345	366	386	446	455	5.6	2.0	5.1
BIOMETRY/EPIDEMIOLOGY	16	30	29	35	36	37	49	15.0	32.4	17.3
BIOPHYSICS	39	39	46	48	55	29	48	-4.8	65.5	3.0
BOTANY	640	686	713	745	730	791	802	3.6	1.4	3.3
CELL BIOLOGY	16	47	44	42	38	55	64	22.8	16.4	21.9
ECOLOGY	70	103	124	106	124	109	122	7.7	11.9	8.3
ENTOMOLOGY/PARASITOLOGY	418	416	435	604	603	548	546	4.6	-.4	3.9
GENETICS	51	73	85	99	108	131	139	17.0	6.1	15.4
MICROBIOLOGY	240	258	293	270	269	354	423	6.7	19.5	8.4
NUTRITION	478	540	641	671	710	702	688	6.6	-2.0	5.3
PATHOLOGY	38	59	53	87	75	74	100	11.7	35.1	14.8
PHARMACOLOGY	120	131	142	192	178	223	222	10.9	-.4	9.2
PHYSIOLOGY	143	175	187	202	192	188	206	4.7	9.6	5.4
ZOOLOGY	213	178	198	192	140	218	180	.4	-17.4	-2.4
BIOSCIENCES, N.E.C.	17	15	12	47	79	64	72	24.7	12.5	22.9
HEALTH SCIENCES	344	447	482	744	841	841	925	16.1	10.0	15.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	3	3	0	**	-100.0	**
DENTISTRY	7	18	7	17	23	3	12	-13.2	300.0	8.0
ENDOCRINOLOGY	3	0	0	1	0	0	0	-100.0	**	-100.0
GASTROENTEROLOGY	0	0	0	0	0	1	0	**	-100.0	**
HEMATOLOGY	0	1	4	0	1	1	0	**	-100.0	**
NEUROLOGY	9	7	12	12	19	10	21	1.8	110.0	12.9
NURSING	12	9	17	39	67	59	96	30.4	62.7	34.6
OBSTETRICS/GYNECOLOGY	3	0	1	2	0	0	2	-100.0	**	-5.6
OPHTHALMOLOGY	0	0	1	0	3	0	0	**	**	**
OTORHINOLARYNGOLOGY	0	2	1	0	0	0	0	**	**	**
PEDIATRICS	1	0	1	0	0	0	6	-100.0	**	29.2
PHARMACEUTICAL SCIENCES	72	68	99	211	207	189	177	17.5	-6.3	13.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	51	60	48	80	93	157	158	20.6	.6	17.5
PSYCHIATRY	0	1	0	0	1	3	0	**	-100.0	**
PULMONARY DISEASE	0	0	0	0	0	0	1	**	**	**
RADIOLOGY	15	29	12	13	20	10	16	-6.5	60.0	.9
SPEECH PATHOLOGY/AUDIOLOGY	77	116	117	124	157	135	196	9.8	45.2	14.3
SURGERY	3	2	0	0	2	1	2	-16.7	100.0	-5.6
VETERINARY SCIENCES	72	105	130	118	113	118	123	8.6	4.2	8.0
CLINICAL MEDICINE, N.E.C.	5	8	9	23	20	27	23	32.5	-14.8	24.4
HEALTH RELATED, N.E.C.	14	21	23	104	112	124	92	43.8	-25.8	30.9
PSYCHOLOGY	1,207	1,274	1,265	1,183	1,422	1,638	1,618	5.2	-1.2	4.3
SOCIAL SCIENCES	3,525	3,608	3,630	3,881	3,870	3,959	4,024	2.0	1.6	1.9
AGRICULTURAL ECONOMICS	579	574	579	641	598	577	543	-.1	-5.9	-.9
ANTHROPOLOGY	222	221	278	247	244	180	224	-3.4	24.4	.1
ECONOMICS (EXCEPT AGRICULTURAL)	880	961	902	890	899	976	930	1.7	-4.7	.8
GEOGRAPHY	160	177	167	152	178	161	148	.1	-8.1	-1.1
HISTORY AND PHILOSOPHY OF SCIENCE	2	7	7	9	13	16	11	41.4	-31.3	27.6
LINGUISTICS	63	62	59	91	94	130	97	12.8	-25.4	6.4
POLITICAL SCIENCE	682	664	597	760	720	781	798	2.3	2.2	2.3
SOCIOLOGY	446	552	516	446	428	431	439	-.6	1.9	-.2
SOCIOLOGY/ANTHROPOLOGY	123	79	72	78	64	105	119	-2.6	13.3	-.5
SOCIAL SCIENCES, N.E.C.	368	311	453	567	632	602	715	8.5	18.8	10.0

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	47,348	48,312	48,665	49,588	51,862	53,824	56,221	2.2	4.5	2.5
ENGINEERING	5,399	5,602	5,768	6,535	7,269	8,186	8,989	7.2	9.8	7.6
AEROSPACE	175	164	155	178	189	218	227	3.7	4.1	3.8
AGRICULTURAL	31	44	37	56	55	42	45	5.2	7.1	5.5
BIOMEDICAL	72	62	66	92	103	94	90	4.5	-4.3	3.2
CHEMICAL	624	631	686	762	833	935	1,033	7.0	10.5	7.5
CIVIL	855	928	1,010	1,128	1,258	1,307	1,491	7.3	14.1	8.3
ELECTRICAL	1,616	1,623	1,565	1,862	2,081	2,372	2,539	6.6	7.0	6.7
ENGINEERING SCIENCE	153	167	180	150	195	198	207	4.4	4.5	4.4
INDUSTRIAL	408	484	452	502	524	622	721	7.3	15.9	8.5
MECHANICAL	857	879	1,000	1,162	1,262	1,440	1,639	9.0	13.8	9.7
METALLURGICAL/MATERIALS	203	202	205	195	232	243	253	3.0	4.1	3.2
MINING	32	27	36	32	27	53	68	8.8	28.3	11.4
NUCLEAR	117	125	108	124	94	105	137	-1.8	30.5	2.3
PETROLEUM	14	10	26	36	46	53	61	24.8	15.1	23.4
ENGINEERING, N.E.C.	242	256	242	256	370	504	478	13.0	-5.2	10.2
PHYSICAL SCIENCES	10,185	10,202	10,129	9,572	9,894	9,975	10,388	-.3	4.1	.3
ASTRONOMY	174	154	155	170	174	181	189	.7	4.4	1.2
CHEMISTRY	6,351	6,458	6,452	6,142	6,303	6,230	6,660	-.3	6.9	.7
PHYSICS	3,639	3,567	3,504	3,244	3,399	3,546	3,529	-.4	-.5	-.4
PHYSICAL SCIENCES, N.E.C.	21	23	18	16	18	18	10	-2.5	-44.4	-10.1
ENVIRONMENTAL SCIENCES	2,172	2,239	2,237	2,471	2,544	2,514	2,705	2.5	7.6	3.2
ATMOSPHERIC SCIENCES	75	85	76	98	94	83	99	1.7	19.3	4.0
GEOSCIENCES	1,751	1,808	1,770	1,979	2,036	2,017	2,194	2.4	8.8	3.3
OCEANOGRAPHY	108	133	142	132	146	129	153	3.0	18.6	5.1
ENVIRONMENTAL SCIENCES, N.E.C.	238	213	249	262	268	285	259	3.0	-9.1	1.2
MATHEMATICAL/COMPUTER SCIENCES	6,491	6,575	6,345	6,445	6,786	7,287	7,788	1.9	6.9	2.6
COMPUTER SCIENCE	902	1,005	990	1,263	1,428	1,781	1,997	12.0	12.1	12.0
MATHEMATICS AND APPLIED MATHEMATICS	5,094	5,023	4,830	4,605	4,733	4,871	5,158	-.7	5.9	.2
STATISTICS	495	547	525	577	625	635	633	4.2	-.3	3.6
LIFE SCIENCES	11,213	11,580	11,875	11,599	12,006	11,812	12,154	.9	2.9	1.2
AGRICULTURAL SCIENCES	691	783	836	826	892	807	905	2.6	12.1	3.9
BIOLOGICAL SCIENCES	8,827	9,101	9,159	8,850	9,088	9,008	9,143	.3	1.5	.5
ANATOMY	276	319	326	342	301	322	321	2.6	-.3	2.2
BIOCHEMISTRY	572	591	627	592	686	703	663	3.5	-5.7	2.1
BIOLOGY	3,217	3,337	3,414	3,247	3,393	3,237	3,318	.1	2.5	.4
BIOMETRY/EPIDEMIOLOGY	32	40	40	46	45	55	41	9.4	-25.5	3.6
BIOPHYSICS	46	34	34	23	43	35	38	-4.5	8.6	-2.7
BOTANY	903	919	900	910	906	875	919	-.5	5.0	.3
CELL BIOLOGY	159	131	115	88	93	112	139	-5.7	24.1	-1.9
ECOLOGY	225	271	297	290	297	319	287	6.0	-10.0	3.5
ENTOMOLOGY/PARASITOLOGY	140	156	153	162	166	174	155	3.7	-10.9	1.5
GENETICS	97	125	145	106	111	119	128	3.5	7.6	4.0
MICROBIOLOGY	865	894	940	796	860	882	906	.3	2.7	.7
NUTRITION	225	224	264	280	280	265	256	2.8	-3.4	1.9
PATHOLOGY	40	41	57	72	75	73	99	10.5	35.6	13.8
PHARMACOLOGY	210	222	194	245	241	243	279	2.5	14.8	4.1
PHYSIOLOGY	394	396	358	370	356	361	363	-1.4	.6	-1.2
ZOOLOGY	1,397	1,370	1,255	1,224	1,196	1,157	1,143	-3.1	-1.2	-2.8
BIOSCIENCES, N.E.C.	29	31	40	57	39	76	88	17.4	15.8	17.2
HEALTH SCIENCES	1,695	1,696	1,880	1,923	2,026	1,997	2,106	2.8	5.5	3.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	1	1	0	0	**	**	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	88	123	140	179	192	146	135	8.8	-7.5	6.3
ENDOCRINOLOGY	5	8	5	10	6	6	6	3.1	.0	2.6
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	1	0	**	-100.0	**
NEUROLOGY	40	31	21	26	29	37	35	-1.3	-5.4	-1.9
NURSING	54	108	161	197	195	259	270	29.9	4.2	25.8
OBSTETRICS/GYNECOLOGY	2	3	0	1	0	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	0	0	0	2	0	4	3	**	-25.0	**
OTORHINOLARYNGOLOGY	0	0	3	0	0	0	0	**	**	**
PEDIATRICS	7	6	0	0	1	1	0	-27.7	-100.0	-100.0
PHARMACEUTICAL SCIENCES	584	562	596	575	575	614	649	.8	5.7	1.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	37	71	59	89	80	78	90	13.2	15.4	13.5
PSYCHIATRY	0	0	18	1	0	0	1	**	**	**
PULMONARY DISEASE	0	0	0	1	0	0	0	**	**	**
RADIOLOGY	9	20	13	15	15	5	0	-9.3	-100.0	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	723	595	697	681	755	658	690	-1.6	4.9	-.7
SURGERY	0	1	4	0	0	0	12	**	**	**
VETERINARY SCIENCES	65	61	68	60	56	51	51	-4.0	.0	-3.4
CLINICAL MEDICINE, N.E.C.	17	23	17	11	16	38	32	14.3	-15.8	9.5
HEALTH RELATED, N.E.C.	64	84	78	74	105	99	132	7.5	33.3	10.9
PSYCHOLOGY	4,095	4,116	4,213	4,212	4,411	4,594	4,574	1.9	-.4	1.6
SOCIAL SCIENCES	7,793	7,998	8,098	8,754	8,952	9,456	9,623	3.3	1.8	3.1
AGRICULTURAL ECONOMICS	67	94	89	93	110	118	125	9.9	5.9	9.3
ANTHROPOLOGY	894	885	817	838	805	842	891	-1.0	5.8	*
ECONOMICS (EXCEPT AGRICULTURAL)	1,901	2,000	2,060	2,174	2,484	2,687	2,878	5.9	7.1	6.1
GEOGRAPHY	722	734	734	727	720	856	840	2.9	-1.9	2.2
HISTORY AND PHILOSOPHY OF SCIENCE	59	67	78	67	77	68	80	2.4	17.6	4.4
LINGUISTICS	417	504	548	721	650	690	627	8.8	-9.1	6.0
POLITICAL SCIENCE	1,549	1,571	1,621	1,911	1,758	1,936	1,866	3.8	-3.6	2.7
SOCIOLOGY	1,509	1,495	1,526	1,441	1,525	1,547	1,520	.4	-1.7	.1
SOCIOLOGY/ANTHROPOLOGY	178	192	181	219	204	190	205	1.1	7.9	2.0
SOCIAL SCIENCES, N.E.C.	497	456	444	563	619	522	591	.8	13.2	2.5

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	548	563	586	549	603	549	382	*	-30.4	-5.0
ENGINEERING	38	59	53	65	125	101	39	17.7	-61.4	.4
AEROSPACE	4	1	0	15	0	19	1	29.7	-94.7	-18.0
AGRICULTURAL	1	0	0	0	10	3	0	20.1	-100.0	-100.0
BIOMEDICAL	1	0	1	0	1	0	0	-100.0	**	-100.0
CHEMICAL	6	2	20	13	44	31	8	31.5	-74.2	4.2
CIVIL	12	18	2	14	46	12	15	.0	25.0	3.2
ELECTRICAL	9	16	9	1	4	6	2	-6.5	-66.7	-19.3
ENGINEERING SCIENCE	0	0	0	4	0	2	2	**	.0	**
INDUSTRIAL	0	8	6	3	3	10	1	**	-90.0	**
MECHANICAL	3	2	3	4	9	8	5	17.8	-37.5	7.6
METALLURGICAL/MATERIALS	0	1	9	7	0	0	0	**	**	**
MINING	0	0	0	0	1	6	3	**	-50.0	**
NUCLEAR	1	11	1	0	3	0	0	-100.0	**	-100.0
PETROLEUM	0	0	1	3	0	0	1	**	**	**
ENGINEERING, N.E.C.	1	0	1	1	4	4	1	26.0	-75.0	.0
PHYSICAL SCIENCES	35	29	40	64	59	47	36	5.0	-23.4	.4
ASTRONOMY	1	1	1	1	0	8	1	41.4	-87.5	.0
CHEMISTRY	28	21	28	52	47	19	20	-6.3	5.3	-4.7
PHYSICS	6	7	11	11	12	20	15	22.2	-25.0	14.0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	6	3	16	29	27	15	8	16.5	-46.7	4.2
ATMOSPHERIC SCIENCES	0	1	1	1	6	0	0	**	**	**
GEOSCIENCES	2	0	10	25	18	14	6	38.3	-57.1	17.0
OCEANOGRAPHY	2	0	2	3	3	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	2	2	3	0	0	1	2	-10.9	100.0	.0
MATHEMATICAL/COMPUTER SCIENCES	18	20	8	11	24	40	42	14.2	5.0	12.9
COMPUTER SCIENCE	4	6	4	1	3	0	26	-100.0	**	30.7
MATHEMATICS AND APPLIED MATHEMATICS	13	10	4	8	21	40	16	20.6	-60.0	3.0
STATISTICS	1	4	0	2	0	0	0	-100.0	**	-100.0
LIFE SCIENCES	310	365	382	301	262	239	150	-4.2	-37.2	-9.9
AGRICULTURAL SCIENCES	16	17	9	8	24	10	8	-7.5	-20.0	-9.4
BIOLOGICAL SCIENCES	106	170	180	153	116	128	69	3.2	-46.1	-5.9
ANATOMY	15	16	4	5	3	9	1	-8.2	-88.9	-32.1
BIOCHEMISTRY	25	33	37	33	31	25	11	.0	-56.0	-11.1
BIOLOGY	8	30	48	51	10	20	12	16.5	-40.0	6.0
BIOMETRY/EPIDEMIOLOGY	7	13	11	0	1	2	0	-18.8	-100.0	-100.0
BIOPHYSICS	0	3	2	0	5	0	1	**	**	**
BOTANY	3	0	6	15	12	11	4	5.5	-63.6	-9.4
CELL BIOLOGY	0	1	0	0	4	3	0	**	-100.0	**
ECOLOGY	0	1	1	0	0	7	2	**	-71.4	**
ENTOMOLOGY/PARASITOLOGY	0	0	12	2	1	3	1	**	-66.7	**
GENETICS	3	14	2	2	3	0	0	-100.0	**	-100.0
MICROBIOLOGY	11	13	31	8	25	14	14	4.1	.0	3.5
NUTRITION	8	6	4	3	3	2	4	-20.6	100.0	-9.4
PATHOLOGY	0	0	4	3	1	0	0	**	**	**
PHARMACOLOGY	9	18	7	22	12	16	12	10.1	-25.0	4.2
PHYSIOLOGY	8	21	7	4	1	5	7	-7.5	40.0	-1.9
ZOOLOGY	4	1	4	2	2	11	0	18.4	-100.0	-100.0
BIOSCIENCES, N.E.C.	0	0	0	3	2	0	0	**	**	**
HEALTH SCIENCES	188	178	193	140	122	101	73	-9.8	-27.7	-12.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	10	13	3	19	20	7	5	-5.8	-28.6	-9.4
ENDOCRINOLOGY	0	0	1	0	0	0	0	**	**	**
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	1	6	1	0	1	0	0	-100.0	**	-100.0
NURSING	7	9	24	35	16	34	29	30.1	-14.7	22.5
OBSTETRICS/GYNECOLOGY	0	3	0	0	0	0	0	**	**	**
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	3	1	0	0	1	1	0	-16.7	-100.0	-100.0
PHARMACEUTICAL SCIENCES	49	32	42	8	11	13	2	-19.8	-84.6	-36.7
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	12	19	9	12	4	3	5	-20.6	66.7	-11.8
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	74	60	87	42	46	30	21	-14.0	-30.0	-16.5
SURGERY	0	1	1	0	0	0	0	**	**	**
VETERINARY SCIENCES	15	9	11	11	6	5	1	-16.7	-80.0	-32.1
CLINICAL MEDICINE, N.E.C.	0	0	0	0	8	5	8	**	60.0	**
HEALTH RELATED, N.E.C.	17	25	14	13	9	3	2	-25.1	-33.3	-26.3
PSYCHOLOGY	61	21	26	32	28	38	46	-7.6	21.1	-4.0
SOCIAL SCIENCES	80	66	61	47	78	69	61	-2.4	-11.6	-3.8
AGRICULTURAL ECONOMICS	7	3	6	1	1	0	0	-100.0	**	-100.0
ANTHROPOLOGY	11	8	16	7	5	1	3	-32.9	200.0	-16.9
ECONOMICS (EXCEPT AGRICULTURAL)	20	13	10	1	18	15	11	-4.7	-26.7	-8.2
GEOGRAPHY	5	1	2	11	4	0	8	-100.0	**	6.9
HISTORY AND PHILOSOPHY OF SCIENCE	0	1	0	0	4	0	2	**	**	**
LINGUISTICS	0	0	0	3	3	6	1	**	-83.3	**
POLITICAL SCIENCE	6	11	7	10	20	10	5	8.9	-50.0	-2.6
SOCIOLOGY	11	11	2	8	5	17	18	7.5	5.9	7.3
SOCIOLOGY/ANTHROPOLOGY	0	2	0	3	6	0	5	**	**	**
SOCIAL SCIENCES, N.E.C.	20	16	18	3	12	20	8	.0	-60.0	-12.3

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED TEACHING ASSISTANTSHIPS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	46,800	47,749	48,079	49,039	51,259	53,275	55,839	2.2	4.8	2.6
ENGINEERING	5,361	5,543	5,715	6,470	7,144	8,085	8,950	7.1	10.7	7.6
AEROSPACE	171	163	155	163	189	199	226	2.6	13.6	4.1
AGRICULTURAL	30	44	37	56	45	39	45	4.5	15.4	6.0
BIOMEDICAL	71	62	65	92	102	94	90	4.8	-4.3	3.4
CHEMICAL	618	629	666	749	789	904	1,025	6.5	13.4	7.5
CIVIL	843	910	1,008	1,114	1,212	1,295	1,476	7.4	14.0	8.5
ELECTRICAL	1,607	1,607	1,556	1,861	2,077	2,366	2,537	6.7	7.2	6.7
ENGINEERING SCIENCE	153	167	180	146	195	196	205	4.2	4.6	4.3
INDUSTRIAL	408	476	446	499	521	612	720	7.0	17.6	8.5
MECHANICAL	854	877	997	1,158	1,253	1,432	1,634	9.0	14.1	9.7
METALLURGICAL/MATERIALS	203	201	196	188	232	243	253	3.0	4.1	3.2
MINING	32	27	36	32	26	47	65	6.6	38.3	10.7
NUCLEAR	116	114	107	124	91	105	137	-1.6	30.5	2.4
PETROLEUM	14	10	25	33	46	53	60	24.8	13.2	23.1
ENGINEERING, N.E.C.	241	256	241	255	366	500	477	12.9	-4.6	10.2
PHYSICAL SCIENCES	10,150	10,173	10,089	9,508	9,835	9,928	10,352	-.4	4.3	.3
ASTRONOMY	173	153	154	169	174	173	188	.0	8.7	1.2
CHEMISTRY	6,323	6,437	6,424	6,090	6,256	6,211	6,640	-.3	6.9	.7
PHYSICS	3,633	3,560	3,493	3,233	3,387	3,526	3,514	-.5	-.3	-.5
PHYSICAL SCIENCES, N.E.C.	21	23	18	16	18	18	10	-2.5	-44.4	-10.1
ENVIRONMENTAL SCIENCES	2,166	2,236	2,221	2,442	2,517	2,499	2,697	2.4	7.9	3.2
ATMOSPHERIC SCIENCES	75	84	75	97	88	83	99	1.7	19.3	4.0
GEOSCIENCES	1,749	1,808	1,760	1,954	2,018	2,003	2,188	2.3	9.2	3.3
OCEANOGRAPHY	106	133	140	129	143	129	153	3.3	18.6	5.4
ENVIRONMENTAL SCIENCES, N.E.C.	236	211	246	262	268	284	257	3.1	-9.5	1.2
MATHEMATICAL/COMPUTER SCIENCES	6,473	6,555	6,337	6,434	6,762	7,247	7,746	1.9	6.9	2.6
COMPUTER SCIENCE	898	999	986	1,262	1,425	1,781	1,971	12.1	10.7	11.9
MATHEMATICS AND APPLIED MATHEMATICS	5,081	5,013	4,826	4,597	4,712	4,831	5,142	-.8	6.4	.2
STATISTICS	494	543	525	575	625	635	633	4.3	-.3	3.6
LIFE SCIENCES	10,903	11,215	11,493	11,298	11,744	11,573	12,004	1.0	3.7	1.4
AGRICULTURAL SCIENCES	675	766	827	818	868	797	897	2.8	12.5	4.1
BIOLOGICAL SCIENCES	8,721	8,931	8,979	8,697	8,972	8,880	9,074	.3	2.2	.6
ANATOMY	261	303	322	337	298	313	320	3.1	2.2	3.0
BIOCHEMISTRY	547	558	590	559	655	678	652	3.6	-3.8	2.5
BIOLOGY	3,209	3,307	3,366	3,196	3,383	3,217	3,306	*	2.8	.4
BIOMETRY/EPIDEMIOLOGY	25	27	29	46	44	53	41	13.3	-22.6	7.3
BIOPHYSICS	46	31	32	23	38	35	37	-4.5	5.7	-3.1
BOTANY	895	919	894	895	894	864	915	-.6	5.9	.3
CELL BIOLOGY	159	130	115	88	89	109	139	-6.1	27.5	-1.9
ECOLOGY	225	270	296	290	297	312	285	5.6	-8.7	3.4
ENTOMOLOGY/PARASITOLOGY	140	156	141	160	165	171	154	3.4	-9.9	1.4
GENETICS	94	111	143	104	108	119	128	4.0	7.6	4.5
MICROBIOLOGY	854	881	909	788	835	868	892	.3	2.8	.6
NUTRITION	217	218	260	277	277	263	252	3.3	-4.2	2.2
PATHOLOGY	40	41	53	69	74	73	99	10.5	35.6	13.8
PHARMACOLOGY	201	204	187	223	229	227	267	2.0	17.6	4.1
PHYSIOLOGY	386	375	351	366	355	356	356	-1.3	.0	-1.1
ZOOLOGY	1,393	1,369	1,251	1,222	1,194	1,146	1,143	-3.2	-.3	-2.8
BIOSCIENCES, N.E.C.	29	31	40	54	37	76	88	17.4	15.8	17.2
HEALTH SCIENCES	1,507	1,518	1,687	1,783	1,904	1,896	2,033	3.9	7.2	4.4
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	1	1	0	0	**	**	**
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	78	110	137	160	172	139	130	10.1	-6.5	7.6
ENDOCRINOLOGY	5	8	4	10	6	6	6	3.1	.0	2.6
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	1	0	**	-100.0	**
NEUROLOGY	39	25	20	26	28	37	35	-.9	-5.4	-1.5
NURSING	47	99	137	162	179	225	241	29.8	7.1	26.3
OBSTETRICS/GYNECOLOGY	2	0	0	1	0	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	0	0	0	2	0	4	3	**	-25.0	**
OTORHINOLARYNGOLOGY	0	0	3	0	0	0	0	**	**	**
PEDIATRICS	4	5	0	0	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	535	530	554	567	564	601	647	2.0	7.7	2.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	25	52	50	77	76	75	85	20.1	13.3	19.1
PSYCHIATRY	0	0	18	1	0	0	1	**	**	**
PULMONARY DISEASE	0	0	0	1	0	0	0	**	**	**
RADIOLOGY	9	20	13	15	15	5	0	-9.3	-100.0	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	649	535	610	639	709	628	669	-.5	6.5	.4
SURGERY	0	0	3	0	0	0	12	**	**	**
VETERINARY SCIENCES	50	52	57	49	50	46	50	-1.4	8.7	.0
CLINICAL MEDICINE, N.E.C.	17	23	17	11	8	33	24	11.7	-27.3	5.0
HEALTH RELATED, N.E.C.	47	59	64	61	96	96	130	12.6	35.4	15.6
PSYCHOLOGY	4,034	4,095	4,187	4,180	4,383	4,556	4,528	2.0	-.6	1.7
SOCIAL SCIENCES	7,713	7,932	8,037	8,707	8,874	9,387	9,562	3.3	1.9	3.1
AGRICULTURAL ECONOMICS	60	91	83	92	109	118	125	11.9	5.9	11.1
ANTHROPOLOGY	883	877	801	831	800	841	888	-.8	5.6	.1
ECONOMICS (EXCEPT AGRICULTURAL)	1,881	1,987	2,050	2,173	2,466	2,672	2,867	6.0	7.3	6.2
GEOGRAPHY	717	733	732	716	716	856	832	3.0	-2.8	2.1
HISTORY AND PHILOSOPHY OF SCIENCE	59	66	78	67	73	68	78	2.4	14.7	4.1
LINGUISTICS	417	504	548	718	647	684	626	8.6	-8.5	6.0
POLITICAL SCIENCE	1,543	1,560	1,614	1,901	1,738	1,926	1,861	3.8	-3.4	2.7
SOCIOLOGY	1,498	1,484	1,524	1,433	1,520	1,530	1,502	.4	-1.8	*
SOCIOLOGY/ANTHROPOLOGY	178	190	181	216	198	190	200	1.1	5.3	1.7
SOCIAL SCIENCES, N.E.C.	477	440	426	560	607	502	583	.9	16.1	2.9

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	84,025	85,575	85,689	86,345	89,100	90,914	93,225	1.3	2.5	1.5
ENGINEERING	16,045	14,842	14,648	15,884	16,425	17,516	20,046	1.5	14.4	3.2
AEROSPACE	417	398	434	380	450	549	528	4.7	-3.8	3.4
AGRICULTURAL	118	171	188	171	130	185	197	7.8	6.5	7.6
BIOMEDICAL	330	329	317	335	317	363	393	1.6	8.3	2.5
CHEMICAL	886	900	971	1,092	1,055	1,186	1,395	5.0	17.6	6.7
CIVIL	3,674	3,103	3,417	3,903	3,900	4,517	5,102	3.5	13.0	4.8
ELECTRICAL	3,618	3,520	3,557	3,649	3,937	3,863	4,662	1.1	20.7	3.7
ENGINEERING SCIENCE	398	418	440	367	395	349	375	-2.2	7.4	-.8
INDUSTRIAL	2,714	2,364	2,021	2,443	2,341	2,153	2,226	-3.8	3.4	-2.8
MECHANICAL	1,898	1,754	1,550	1,740	1,928	2,222	2,683	2.7	20.7	5.1
METALLURGICAL/MATERIALS	285	255	321	331	291	335	359	2.7	7.2	3.4
MINING	121	94	56	57	72	69	57	-8.9	40.6	-3.1
NUCLEAR	366	347	337	291	282	304	335	-3.0	10.2	-1.3
PETROLEUM	72	106	71	105	131	146	207	12.5	41.8	16.3
ENGINEERING, N.E.C.	1,148	1,103	968	1,020	1,196	1,275	1,487	1.8	16.6	3.8
PHYSICAL SCIENCES	2,403	2,295	2,334	2,228	1,922	1,866	2,006	-4.1	7.5	-2.5
ASTRONOMY	104	82	74	63	46	49	64	-11.8	30.6	-6.7
CHEMISTRY	1,115	1,050	1,102	1,199	959	852	934	-4.4	9.6	-2.5
PHYSICS	1,143	1,139	1,119	950	882	944	998	-3.1	5.7	-1.9
PHYSICAL SCIENCES, N.E.C.	41	24	39	16	35	21	10	-10.6	-52.4	-18.3
ENVIRONMENTAL SCIENCES	3,027	3,112	3,212	2,995	2,868	3,389	3,666	1.9	8.2	2.8
ATMOSPHERIC SCIENCES	264	222	222	154	155	201	212	-4.4	5.5	-3.1
GEOSCIENCES	1,943	1,910	1,947	1,942	1,892	2,235	2,504	2.4	12.0	3.7
OCEANOGRAPHY	360	398	421	387	416	492	410	5.3	-16.7	1.9
ENVIRONMENTAL SCIENCES, N.E.C.	460	582	622	512	405	461	540	*	17.1	2.3
MATHEMATICAL/COMPUTER SCIENCES	4,938	5,142	4,855	4,759	5,424	5,787	7,136	2.7	23.3	5.4
COMPUTER SCIENCE	2,111	2,264	2,215	2,613	3,129	3,246	4,435	7.6	36.6	11.2
MATHEMATICS AND APPLIED MATHEMATICS	2,342	2,412	2,146	1,767	1,868	2,021	2,173	-2.4	7.5	-1.1
STATISTICS	485	466	494	379	427	520	528	1.2	1.5	1.2
LIFE SCIENCES	21,017	22,459	22,903	22,913	23,353	23,121	22,516	1.6	-2.6	1.0
AGRICULTURAL SCIENCES	3,220	3,558	3,597	3,425	3,473	3,415	3,353	1.0	-1.8	.6
BIOLOGICAL SCIENCES	10,506	10,627	10,707	9,418	8,921	8,576	8,419	-3.3	-1.8	-3.1
ANATOMY	327	362	348	272	284	234	243	-5.4	3.8	-4.2
BIOCHEMISTRY	545	464	525	476	484	441	528	-3.5	19.7	-.5
BIOLOGY	3,306	3,234	3,003	2,464	2,097	2,034	1,921	-7.8	-5.6	-7.5
BIOMETRY/EPIDEMIOLOGY	338	348	453	491	523	418	395	3.6	-5.5	2.3
BIOPHYSICS	111	121	112	86	90	123	93	1.7	-24.4	-2.5
BOTANY	822	962	1,020	772	729	667	660	-3.4	-1.0	-3.1
CELL BIOLOGY	72	63	42	78	83	76	65	.9	-14.5	-1.5
ECOLOGY	262	224	307	200	249	251	256	-.7	2.0	-.3
ENTOMOLOGY/PARASITOLOGY	456	477	474	352	315	306	272	-6.4	-11.1	-7.1
GENETICS	180	187	176	179	126	146	168	-3.4	15.1	-1.0
MICROBIOLOGY	943	950	972	837	873	732	768	-4.1	4.9	-2.9
NUTRITION	909	1,014	1,095	1,222	1,106	1,340	1,321	6.7	-1.4	5.5
PATHOLOGY	384	435	480	470	451	381	354	-.1	-7.1	-1.2
PHARMACOLOGY	316	359	399	355	422	337	369	1.1	9.5	2.2
PHYSIOLOGY	640	616	558	563	515	568	533	-2.5	-6.2	-3.0
ZOOLOGY	839	764	673	503	478	455	408	-9.7	-10.3	-9.8
BIOSCIENCES, N.E.C.	36	47	70	98	96	67	65	10.9	-3.0	8.8
HEALTH SCIENCES	7,291	8,274	8,599	10,070	10,959	11,130	10,744	7.3	-3.5	5.7
ANESTHESIOLOGY	0	0	2	15	13	15	19	**	26.7	**
CANCER/ONCOLOGY	0	1	2	0	0	44	0	**	-100.0	**
CARDIOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	597	559	598	669	619	545	437	-1.5	-19.8	-4.4
ENDOCRINOLOGY	17	10	16	6	12	8	5	-11.8	-37.5	-16.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	3	2	2	9	6	5	5	8.9	.0	7.6
NEUROLOGY	26	31	38	21	46	24	28	-1.3	16.7	1.1
NURSING	765	1,020	1,318	2,244	2,284	2,765	2,669	23.9	-3.5	19.5
OBSTETRICS/GYNECOLOGY	11	10	4	4	3	4	7	-15.5	75.0	-4.3
OPHTHALMOLOGY	2	1	2	1	2	2	3	.0	50.0	6.0
OTORHINOLARYNGOLOGY	10	11	22	6	7	0	0	-100.0	**	-100.0
PEDIATRICS	71	82	59	51	53	52	76	-5.1	46.2	1.0
PHARMACEUTICAL SCIENCES	440	405	498	404	439	382	429	-2.3	12.3	-.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,297	1,685	1,618	2,221	2,288	2,298	2,389	10.0	4.0	9.1
PSYCHIATRY	56	63	49	50	16	18	22	-17.2	22.2	-12.5
PULMONARY DISEASE	0	0	0	0	2	0	2	**	**	**
RADIOLOGY	91	62	104	87	98	97	66	1.1	-32.0	-4.5
SPEECH PATHOLOGY/AUDIOLOGY	2,835	3,098	2,830	2,618	2,964	2,821	2,779	-.1	-1.5	-.3
SURGERY	31	24	28	24	34	6	21	-23.9	250.0	-5.4
VETERINARY SCIENCES	122	135	112	153	84	79	95	-7.0	20.3	-3.5
CLINICAL MEDICINE, N.E.C.	78	83	98	66	107	52	74	-6.5	42.3	-.7
HEALTH RELATED, N.E.C.	838	992	1,199	1,421	1,882	1,913	1,618	14.7	-15.4	9.9
PSYCHOLOGY	8,926	10,768	10,543	10,571	11,379	11,114	11,122	3.7	.1	3.2
SOCIAL SCIENCES	27,669	26,957	27,194	26,995	27,729	28,121	26,733	.3	-4.9	-.5
AGRICULTURAL ECONOMICS	673	776	610	709	744	762	752	2.1	-1.3	1.6
ANTHROPOLOGY	2,685	2,769	2,873	2,414	2,507	2,361	2,167	-2.1	-8.2	-3.0
ECONOMICS (EXCEPT AGRICULTURAL)	3,359	3,122	3,339	3,395	3,917	4,116	4,100	3.4	-.4	2.9
GEOGRAPHY	962	1,026	891	781	853	826	782	-2.5	-5.3	-2.9
HISTORY AND PHILOSOPHY OF SCIENCE	107	103	99	88	83	76	68	-5.5	-10.5	-6.3
LINGUISTICS	1,084	1,009	763	771	979	932	1,002	-2.5	7.5	-1.1
POLITICAL SCIENCE	7,877	7,213	7,434	7,418	6,894	7,492	7,108	-.8	-5.1	-1.5
SOCIOLOGY	2,664	2,716	2,522	2,046	2,239	2,025	1,731	-4.5	-14.5	-6.0
SOCIOLOGY/ANTHROPOLOGY	504	206	325	168	208	161	217	-17.3	34.8	-11.3
SOCIAL SCIENCES, N.E.C.	7,754	8,017	8,338	9,205	9,305	9,370	8,806	3.2	-6.0	1.8

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH FEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	4,353	4,712	4,927	5,171	4,829	4,665	4,381	1.2	-6.1	.1
ENGINEERING	1,622	1,719	1,562	1,625	1,533	1,472	1,522	-1.6	3.4	-.9
AEROSPACE	187	163	205	136	170	239	241	4.2	.8	3.7
AGRICULTURAL	7	4	13	10	4	5	9	-5.5	80.0	3.7
BIOMEDICAL	27	13	8	18	24	21	6	-4.1	-71.4	-19.3
CHEMICAL	35	30	35	125	39	39	33	1.8	-15.4	-.8
CIVIL	151	177	141	160	123	127	136	-2.8	7.1	-1.5
ELECTRICAL	371	407	419	407	496	417	464	2.0	11.3	3.2
ENGINEERING SCIENCE	213	231	269	214	231	173	167	-3.4	-3.5	-3.4
INDUSTRIAL	239	370	216	311	202	212	152	-2.0	-28.3	-6.3
MECHANICAL	207	160	101	121	138	136	138	-6.8	1.5	-5.6
METALLURGICAL/MATERIALS	13	6	9	9	12	2	1	-26.8	-50.0	-30.7
MINING	13	6	3	9	8	6	3	-12.1	-50.0	-18.9
NUCLEAR	16	15	20	6	7	6	31	-15.1	416.7	9.9
PETROLEUM	2	4	2	15	4	1	10	-10.9	900.0	25.8
ENGINEERING, N.E.C.	141	133	121	84	75	88	131	-7.6	48.9	-1.0
PHYSICAL SCIENCES	130	121	220	302	122	95	88	-5.1	-7.4	-5.4
ASTRONOMY	10	9	13	4	4	4	4	-14.2	.0	-12.3
CHEMISTRY	25	35	104	235	44	16	14	-7.2	-12.5	-7.9
PHYSICS	83	76	98	63	65	71	70	-2.6	-1.4	-2.4
PHYSICAL SCIENCES, N.E.C.	12	1	5	0	9	4	0	-16.7	-100.0	-100.0
ENVIRONMENTAL SCIENCES	273	245	267	300	241	246	241	-1.7	-2.0	-1.8
ATMOSPHERIC SCIENCES	118	98	91	56	44	60	64	-10.7	6.7	-8.4
GEOSCIENCES	78	75	99	124	79	75	73	-.7	-2.7	-.9
OCEANOGRAPHY	66	50	44	102	89	91	83	5.5	-8.8	3.3
ENVIRONMENTAL SCIENCES, N.E.C.	11	22	33	18	29	20	21	10.5	5.0	9.7
MATHEMATICAL/COMPUTER SCIENCES	396	358	293	383	361	475	521	3.1	9.7	4.0
COMPUTER SCIENCE	212	199	105	117	110	174	210	-3.2	20.7	-.1
MATHEMATICS AND APPLIED MATHEMATICS	176	154	174	246	240	289	307	8.6	6.2	8.3
STATISTICS	8	5	14	20	11	12	4	7.0	-66.7	-9.4
LIFE SCIENCES	681	892	878	1,157	1,185	1,176	923	9.5	-21.5	4.4
AGRICULTURAL SCIENCES	65	109	91	128	56	90	69	5.6	-23.3	.9
BIOLOGICAL SCIENCES	394	462	417	510	441	403	434	.4	7.7	1.4
ANATOMY	15	11	6	22	29	16	9	1.1	-43.8	-7.0
BIOCHEMISTRY	52	38	55	37	34	30	91	-8.8	203.3	8.3
BIOLOGY	44	81	56	94	35	48	55	1.5	14.6	3.2
BIOMETRY/EPIDEMIOLOGY	11	13	23	18	13	22	23	12.2	4.5	11.1
BIOPHYSICS	4	4	13	6	5	4	1	.0	-75.0	-18.0
BOTANY	26	62	44	31	20	16	26	-7.8	62.5	.0
CELL BIOLOGY	0	6	8	33	27	19	18	**	-5.3	**
ECOLOGY	15	19	8	15	11	7	9	-11.9	28.6	-7.0
ENTOMOLOGY/PARASITOLOGY	27	19	18	20	15	19	11	-5.7	-42.1	-12.0
GENETICS	21	5	0	17	5	15	11	-5.5	-26.7	-8.8
MICROBIOLOGY	53	66	41	45	74	62	64	2.6	3.2	2.7
NUTRITION	20	27	32	8	21	20	17	.0	-15.0	-2.3
PATHOLOGY	28	31	21	23	36	28	26	.0	-7.1	-1.1
PHARMACOLOGY	30	35	25	33	39	28	41	-1.1	46.4	4.6
PHYSIOLOGY	24	29	40	73	51	35	17	6.5	-51.4	-4.8
ZOOLOGY	21	14	25	30	19	30	10	6.1	-66.7	-10.1
BIOSCIENCES, N.E.C.	3	2	2	5	7	4	5	4.9	25.0	7.6
HEALTH SCIENCES	222	321	370	519	688	683	420	20.6	-38.5	9.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	**	**	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0	**	**	**
CARDIOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	21	18	62	35	46	32	18	7.3	-43.8	-2.2
ENDOCRINOLOGY	1	0	0	0	2	1	0	.0	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	0	0	0	0	0	1	1	**	.0	**
NEUROLOGY	1	0	1	1	13	4	3	26.0	-25.0	17.0
NURSING	50	83	47	155	239	290	208	34.0	-28.3	22.6
OBSTETRICS/GYNECOLOGY	1	0	0	0	0	0	0	-100.0	**	-100.0
OPHTHALMOLOGY	0	0	0	0	0	0	0	**	**	**
OTORHINOLARYNGOLOGY	0	0	2	0	2	0	0	**	**	**
PEDIATRICS	6	19	2	0	0	0	0	-100.0	**	-100.0
PHARMACEUTICAL SCIENCES	10	17	23	21	21	29	18	19.4	-37.9	8.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	36	102	103	185	129	127	87	23.4	-31.5	13.4
PSYCHIATRY	0	1	0	6	0	0	0	**	**	**
PULMONARY DISEASE	0	0	0	0	0	0	0	**	**	**
RADIOLOGY	6	1	10	1	2	2	5	-16.7	150.0	-2.6
SPEECH PATHOLOGY/AUDIOLOGY	48	55	34	32	53	37	35	-4.2	-5.4	-4.4
SURGERY	2	0	0	0	2	0	0	-100.0	**	-100.0
VETERINARY SCIENCES	4	6	1	7	4	0	2	-100.0	**	-9.4
CLINICAL MEDICINE, N.E.C.	12	6	16	4	18	0	0	-100.0	**	-100.0
HEALTH RELATED, N.E.C.	23	13	69	72	157	160	43	38.2	-73.1	9.4
PSYCHOLOGY	333	290	288	293	461	366	214	1.6	-41.5	-6.1
SOCIAL SCIENCES	918	1,087	1,419	1,111	926	835	872	-1.6	4.4	-.7
AGRICULTURAL ECONOMICS	51	58	49	66	37	63	34	3.6	-46.0	-5.6
ANTHROPOLOGY	46	57	76	51	60	61	63	4.8	3.3	4.6
ECONOMICS (EXCEPT AGRICULTURAL)	52	66	79	55	90	75	46	6.3	-38.7	-1.7
GEOGRAPHY	30	56	51	20	12	15	13	-10.9	-13.3	-11.3
HISTORY AND PHILOSOPHY OF SCIENCE	0	1	1	0	0	3	0	**	-100.0	**
LINGUISTICS	9	11	21	26	8	10	126	1.8	1160.0	45.8
POLITICAL SCIENCE	200	333	668	345	379	380	369	11.3	-2.9	9.1
SOCIOLOGY	90	104	125	73	56	78	34	-2.4	-56.4	-13.0
SOCIOLOGY/ANTHROPOLOGY	1	7	13	1	12	1	2	.0	100.0	10.4
SOCIAL SCIENCES, N.E.C.	439	394	336	474	272	149	185	-16.5	24.2	-11.6

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH NONFEDERALLY-FUNDED OTHER TYPES OF SUPPORT IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	79,672	80,863	80,762	81,174	84,271	86,249	88,844	1.3	3.0	1.6
ENGINEERING	14,423	13,123	13,086	14,259	14,892	16,044	18,524	1.8	15.5	3.6
AEROSPACE	230	235	229	244	280	310	287	5.1	-7.4	3.2
AGRICULTURAL	111	167	175	161	126	180	188	8.4	4.4	7.8
BIOMEDICAL	303	296	309	317	293	342	387	2.0	13.2	3.6
CHEMICAL	851	870	936	967	1,016	1,147	1,362	5.1	18.7	6.9
CIVIL	3,523	2,926	3,276	3,743	3,777	4,390	4,966	3.7	13.1	5.0
ELECTRICAL	3,247	3,113	3,138	3,242	3,441	3,446	4,198	1.0	21.8	3.7
ENGINEERING SCIENCE	185	187	171	153	164	176	208	-.8	18.2	1.7
INDUSTRIAL	2,475	1,994	1,805	2,132	2,139	1,941	2,074	-4.0	6.9	-2.5
MECHANICAL	1,691	1,594	1,449	1,619	1,790	2,086	2,545	3.6	22.0	6.0
METALLURGICAL/MATERIALS	272	249	312	322	279	333	358	3.4	7.5	4.0
MINING	103	88	53	48	64	63	94	-8.6	49.2	-2.0
NUCLEAR	350	332	317	285	275	298	304	-2.6	2.0	-2.0
PETROLEUM	70	102	69	90	127	145	197	12.9	35.9	15.9
ENGINEERING, N.E.C.	1,007	970	847	936	1,121	1,187	1,356	2.8	14.2	4.3
PHYSICAL SCIENCES	2,273	2,174	2,114	1,926	1,800	1,771	1,918	-4.1	8.3	-2.4
ASTRONOMY	94	73	61	59	42	45	60	-11.6	33.3	-6.2
CHEMISTRY	1,090	1,015	998	964	915	836	920	-4.3	10.0	-2.4
PHYSICS	1,060	1,063	1,021	887	817	873	928	-3.2	6.3	-1.9
PHYSICAL SCIENCES, N.E.C.	29	23	34	16	26	17	10	-8.5	-41.2	-14.1
ENVIRONMENTAL SCIENCES	2,754	2,867	2,945	2,695	2,627	3,143	3,425	2.2	9.0	3.2
ATMOSPHERIC SCIENCES	146	124	131	98	111	141	148	-.6	5.0	.2
GEOSCIENCES	1,865	1,835	1,848	1,818	1,813	2,160	2,431	2.5	12.5	3.9
OCEANOGRAPHY	294	348	377	285	327	401	327	5.3	-18.5	1.5
ENVIRONMENTAL SCIENCES, N.E.C.	449	560	589	494	376	441	519	-.3	17.7	2.1
MATHEMATICAL/COMPUTER SCIENCES	4,542	4,784	4,562	4,376	5,063	5,312	6,615	2.6	24.5	5.5
COMPUTER SCIENCE	1,899	2,065	2,110	2,496	3,019	3,072	4,225	8.3	37.5	12.1
MATHEMATICS AND APPLIED MATHEMATICS	2,166	2,258	1,972	1,521	1,628	1,732	1,866	-3.7	7.7	-2.1
STATISTICS	477	461	480	359	416	508	524	1.1	3.1	1.4
LIFE SCIENCES	20,336	21,567	22,025	21,756	22,168	21,945	21,593	1.3	-1.6	.9
AGRICULTURAL SCIENCES	3,155	3,449	3,506	3,297	3,417	3,325	3,284	.9	-1.2	.6
BIOLOGICAL SCIENCES	10,112	10,165	10,290	8,908	8,480	8,173	7,985	-3.5	-2.3	-3.3
ANATOMY	312	351	342	250	255	218	234	-5.8	7.3	-4.0
BIOCHEMISTRY	493	426	470	439	450	411	437	-3.0	6.3	-1.7
BIOLOGY	3,262	3,153	2,947	2,370	2,062	1,986	1,866	-7.9	-6.0	-7.7
BIOMETRY/EPIDEMIOLOGY	327	335	430	473	510	396	372	3.2	-6.1	1.9
BIOPHYSICS	107	117	99	80	85	119	92	1.8	-22.7	-2.1
BOTANY	796	900	976	741	709	651	634	-3.3	-2.6	-3.2
CELL BIOLOGY	72	57	34	45	56	57	47	-3.8	-17.5	-5.9
ECOLOGY	247	205	299	185	238	244	247	-.2	1.2	.0
ENTOMOLOGY/PARASITOLOGY	429	458	456	332	300	287	261	-6.5	-9.1	-6.9
GENETICS	159	182	176	162	121	131	157	-3.2	19.8	-.2
MICROBIOLOGY	890	884	931	792	799	670	704	-4.6	5.1	-3.3
NUTRITION	889	987	1,063	1,214	1,085	1,320	1,304	6.8	-1.2	5.6
PATHOLOGY	356	404	459	447	415	353	328	-.1	-7.1	-1.2
PHARMACOLOGY	286	324	374	322	383	309	328	1.3	6.1	2.0
PHYSIOLOGY	636	587	518	490	464	533	516	-2.9	-3.2	-2.9
ZOOLOGY	818	750	648	473	459	425	398	-10.3	-6.4	-9.8
BIOSCIENCES, N.E.C.	33	45	68	93	89	63	60	11.4	-4.8	8.9
HEALTH SCIENCES	7,069	7,953	8,229	9,551	10,271	10,447	10,324	6.7	-1.2	5.6
ANESTHESIOLOGY	0	0	2	15	13	15	19	**	26.7	**
CANCER/ONCOLOGY	0	1	2	0	0	44	0	**	-100.0	**
CARDIOLOGY	0	0	0	0	0	0	0	**	**	**
DENTISTRY	576	541	536	634	573	513	419	-1.9	-18.3	-4.4
ENDOCRINOLOGY	16	10	16	6	10	7	5	-12.9	-28.6	-15.3
GASTROENTEROLOGY	0	0	0	0	0	0	0	**	**	**
HEMATOLOGY	3	2	2	9	6	4	4	4.9	.0	4.2
NEUROLOGY	25	31	37	20	33	20	25	-3.7	25.0	.0
NURSING	715	937	1,271	2,089	2,045	2,475	2,461	23.0	-.6	19.3
OBSTETRICS/GYNECOLOGY	10	10	4	4	3	4	7	-14.2	75.0	-5.0
OPHTHALMOLOGY	2	1	2	1	2	2	3	.0	50.0	6.0
OTORHINOLARYNGOLOGY	10	11	20	6	5	0	0	-100.0	**	-100.0
PEDIATRICS	65	63	57	51	53	52	76	-3.7	46.2	2.3
PHARMACEUTICAL SCIENCES	430	388	475	383	418	353	411	-3.2	16.4	-.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1,261	1,583	1,515	2,036	2,159	2,171	2,302	9.5	6.0	9.0
PSYCHIATRY	56	62	49	44	16	18	22	-17.2	22.2	-12.5
PULMONARY DISEASE	0	0	0	0	2	0	2	**	**	**
RADIOLOGY	85	61	94	86	96	95	61	1.9	-35.8	-4.6
SPEECH PATHOLOGY/AUDIOLOGY	2,787	3,043	2,796	2,586	2,911	2,784	2,744	*	-1.4	-.2
SURGERY	29	24	28	24	32	6	21	-23.1	250.0	-4.5
VETERINARY SCIENCES	118	129	111	146	80	79	93	-6.5	17.7	-3.3
CLINICAL MEDICINE, N.E.C.	66	77	82	64	89	52	74	-3.9	42.3	1.6
HEALTH RELATED, N.E.C.	815	979	1,130	1,349	1,725	1,753	1,575	13.6	-10.2	9.9
PSYCHOLOGY	8,593	10,478	10,255	10,278	10,918	10,748	10,908	3.8	1.5	3.5
SOCIAL SCIENCES	26,751	25,870	25,775	25,884	26,803	27,286	25,861	.3	-5.2	-.5
AGRICULTURAL ECONOMICS	622	718	561	643	707	699	718	2.0	2.7	2.1
ANTHROPOLOGY	2,639	2,712	2,797	2,363	2,447	2,300	2,104	-2.3	-8.5	-3.2
ECONOMICS (EXCEPT AGRICULTURAL)	3,307	3,056	3,260	3,340	3,827	4,041	4,054	3.4	.3	3.0
GEOGRAPHY	932	970	840	761	841	811	769	-2.3	-5.2	-2.7
HISTORY AND PHILOSOPHY OF SCIENCE	107	102	98	88	83	73	68	-6.2	-6.8	-6.3
LINGUISTICS	1,075	998	742	745	971	922	876	-2.5	-5.0	-2.9
POLITICAL SCIENCE	7,677	6,880	6,766	7,073	6,515	7,112	6,739	-1.3	-5.2	-1.8
SOCIOLOGY	2,574	2,612	2,397	1,973	2,183	1,947	1,697	-4.5	-12.8	-5.8
SOCIOLOGY/ANTHROPOLOGY	503	199	312	167	196	160	215	-17.4	34.4	-11.4
SOCIAL SCIENCES, N.E.C.	7,315	7,623	8,002	8,731	9,033	9,221	8,621	3.9	-6.5	2.4

1/ DISTRIBUTION BY TYPE OF MAJOR SUPPORT WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	177,193	179,689	180,597	178,659	181,951	181,698	182,233	.4	0.3	.4
ENGINEERING	25,196	24,161	23,610	23,428	24,675	25,854	28,148	.4	8.9	1.6
AEROSPACE	831	713	705	631	759	882	944	1.0	7.0	1.8
AGRICULTURAL	309	281	335	371	338	374	398	3.2	6.4	3.7
BIOMEDICAL	685	652	599	696	653	696	709	.3	1.9	.5
CHEMICAL	2,069	2,120	2,257	2,331	2,480	2,758	3,224	4.9	16.9	6.5
CIVIL	5,186	4,758	4,871	4,743	4,871	5,277	5,541	.3	5.0	1.0
ELECTRICAL	5,589	5,344	5,324	5,093	5,530	5,543	6,269	-.1	13.1	1.7
ENGINEERING SCIENCE	831	884	826	802	846	890	873	1.1	-1.9	.7
INDUSTRIAL	2,880	2,529	2,188	2,433	2,300	2,055	2,217	-5.5	7.9	-3.7
MECHANICAL	3,147	3,118	2,968	3,023	3,224	3,412	3,769	1.4	10.5	2.6
METALLURGICAL/MATERIALS	1,069	1,125	1,178	1,102	1,136	1,330	1,280	3.7	-3.8	2.6
MINING	192	234	205	180	182	222	234	2.4	5.4	2.9
NUCLEAR	855	838	767	631	600	605	569	-5.6	-6.0	-5.7
PETROLEUM	74	99	100	105	160	198	214	17.8	8.1	16.4
ENGINEERING, N.E.C.	1,479	1,466	1,287	1,287	1,596	1,612	1,907	1.4	18.3	3.7
PHYSICAL SCIENCES	16,883	17,155	17,169	16,611	16,670	16,524	17,062	-.4	3.3	.2
ASTRONOMY	592	553	529	525	509	472	488	-3.7	3.4	-2.7
CHEMISTRY	9,662	9,923	10,089	10,097	10,212	10,102	10,678	.7	5.7	1.4
PHYSICS	6,540	6,612	6,484	5,942	5,891	5,898	5,848	-1.7	-.8	-1.6
PHYSICAL SCIENCES, N.E.C.	89	67	67	47	58	52	48	-8.6	-7.7	-8.4
ENVIRONMENTAL SCIENCES	8,119	8,573	8,791	8,823	8,800	8,896	9,174	1.5	3.1	1.8
ATMOSPHERIC SCIENCES	711	688	678	620	632	587	618	-3.1	5.2	-2.0
GEOSCIENCES	5,091	5,424	5,535	5,757	5,872	5,891	6,321	2.5	7.3	3.1
OCEANOGRAPHY	1,284	1,325	1,359	1,303	1,322	1,344	1,213	.8	-9.7	-.8
ENVIRONMENTAL SCIENCES, N.E.C.	1,033	1,136	1,219	1,143	974	1,074	1,022	.7	-4.8	-.2
MATHEMATICAL/COMPUTER SCIENCES	11,318	11,353	10,599	9,848	10,229	10,408	11,699	-1.4	12.4	.5
COMPUTER SCIENCE	3,142	3,357	3,263	3,579	4,097	4,327	5,354	5.5	23.7	7.9
MATHEMATICS AND APPLIED MATHEMATICS	7,194	7,015	6,402	5,459	5,253	5,243	5,528	-5.1	5.4	-3.7
STATISTICS	982	981	934	810	879	838	817	-2.6	-2.5	-2.6
LIFE SCIENCES	53,151	55,291	57,591	58,386	59,355	58,314	56,747	1.6	-2.7	.9
AGRICULTURAL SCIENCES	6,783	7,198	7,469	7,341	7,484	7,398	7,381	1.5	-.2	1.2
BIOLOGICAL SCIENCES	31,337	31,932	32,392	31,483	31,304	30,647	30,373	-.4	-.9	-.4
ANATOMY	954	1,025	1,020	992	938	907	880	-.8	-3.0	-1.1
BIOCHEMISTRY	3,028	3,106	3,171	3,177	3,149	3,096	3,141	.4	1.5	.5
BIOLOGY	8,386	8,539	8,369	7,713	7,493	7,120	6,987	-2.7	-1.9	-2.6
BIOMETRY/EPIDEMIOLOGY	695	697	806	841	904	842	772	3.2	-8.3	1.5
BIOPHYSICS	516	504	469	426	420	396	355	-4.3	-10.4	-5.2
BOTANY	2,589	2,803	2,904	2,688	2,618	2,478	2,539	-.7	2.5	-.3
CELL BIOLOGY	553	514	568	660	751	802	934	6.4	16.5	7.8
ECOLOGY	695	758	895	769	870	845	807	3.3	-4.5	2.2
ENTOMOLOGY/PARASITOLOGY	1,151	1,174	1,155	1,238	1,298	1,189	1,113	.5	-6.4	-.5
GENETICS	668	671	777	719	723	721	749	1.3	3.9	1.6
MICROBIOLOGY	3,239	3,299	3,372	3,137	3,194	3,086	3,179	-.8	3.0	-.3
NUTRITION	1,717	1,852	2,070	2,192	2,157	2,279	2,231	4.8	-2.1	3.8
PATHOLOGY	829	854	846	909	878	873	854	.9	-2.2	.4
PHARMACOLOGY	1,339	1,438	1,512	1,656	1,699	1,711	1,701	4.2	-.6	3.5
PHYSIOLOGY	1,938	1,830	1,790	1,709	1,679	1,739	1,620	-1.8	-6.8	-2.5
ZOOLOGY	2,921	2,701	2,463	2,268	2,123	2,113	2,004	-5.3	-5.2	-5.2
BIOSCIENCES, N.E.C.	119	167	205	389	410	450	507	24.8	12.7	23.0
HEALTH SCIENCES	15,031	16,161	17,730	19,562	20,567	20,269	18,993	5.1	-6.3	3.4
ANESTHESIOLOGY	52	4	3	17	12	15	19	-18.7	26.7	-13.4
CANCER/ONCOLOGY	48	34	41	39	38	38	55	-3.8	44.7	2.0
CARDIOLOGY	17	0	3	3	12	2	3	-30.0	50.0	-21.9
DENTISTRY	812	736	767	827	746	681	651	-2.9	-4.4	-3.1
ENDOCRINOLOGY	38	28	28	42	47	43	44	2.1	2.3	2.1
GASTROENTEROLOGY	10	8	8	0	0	2	7	-23.5	250.0	-5.0
HEMATOLOGY	3	3	5	13	8	9	6	20.1	-33.3	10.4
NEUROLOGY	299	281	290	307	307	269	294	-1.7	9.3	-.2
NURSING	2,723	3,761	5,110	5,959	6,067	6,515	6,035	15.6	-7.4	12.0
OBSTETRICS/GYNECOLOGY	43	44	20	25	4	8	10	-24.4	25.0	-18.8
OPHTHALMOLOGY	23	8	9	4	13	16	15	-5.9	-6.3	-5.9
OTORHINOLARYNGOLOGY	41	52	52	21	18	15	16	-15.4	6.7	-11.6
PEDIATRICS	149	138	107	116	119	126	125	-2.8	-.8	-2.5
PHARMACEUTICAL SCIENCES	1,071	1,019	1,155	1,130	1,183	1,139	1,114	1.0	-2.2	.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	2,728	2,973	2,845	3,792	3,935	3,858	3,328	5.9	-13.7	2.9
PSYCHIATRY	120	110	124	116	59	57	66	-11.7	15.8	-8.2
PULMONARY DISEASE	7	0	3	1	15	9	11	4.3	22.2	6.7
RADIOLOGY	289	234	235	181	196	200	172	-6.0	-14.0	-7.1
SPEECH PATHOLOGY/AUDIOLOGY	4,493	4,607	4,541	4,252	4,594	4,282	4,305	-.8	.5	-.6
SURGERY	101	95	77	49	65	65	71	-7.1	9.2	-4.9
VETERINARY SCIENCES	286	299	316	313	271	246	276	-2.5	12.2	-.5
CLINICAL MEDICINE, N.E.C.	211	170	203	212	251	203	252	-.6	24.1	2.6
HEALTH RELATED, N.E.C.	1,467	1,557	1,788	2,143	2,607	2,471	2,118	9.1	-14.3	5.4
PSYCHOLOGY	19,135	20,881	20,618	19,750	20,517	20,703	20,246	1.3	-2.2	.8
SOCIAL SCIENCES	43,391	42,275	42,219	41,813	41,705	40,999	39,157	-.9	-4.5	-1.5
AGRICULTURAL ECONOMICS	1,256	1,333	1,317	1,280	1,291	1,257	1,238	*	-1.5	-.2
ANTHROPOLOGY	4,608	4,639	4,638	4,143	4,087	3,822	3,648	-3.1	-4.6	-3.3
ECONOMICS (EXCEPT AGRICULTURAL)	5,770	5,308	5,372	5,117	5,607	5,565	5,761	-.6	3.5	*
GEOGRAPHY	1,941	2,004	1,867	1,589	1,735	1,749	1,654	-1.7	-5.4	-2.3
HISTORY AND PHILOSOPHY OF SCIENCE	234	246	232	204	216	187	188	-3.7	.5	-3.1
LINGUISTICS	1,615	1,680	1,365	1,559	1,412	1,435	1,419	-2.0	-1.1	-1.8
POLITICAL SCIENCE	10,910	10,230	10,231	10,488	9,830	10,313	9,739	-.9	-5.6	-1.6
SOCIOLOGY	5,639	5,626	5,269	4,598	4,628	4,277	3,840	-4.5	-10.2	-5.3
SOCIOLOGY/ANTHROPOLOGY	878	564	615	472	454	413	475	-11.8	15.0	-8.4
SOCIAL SCIENCES, N.E.C.	10,540	10,645	11,313	12,363	12,445	11,981	11,195	2.2	-6.6	.9

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. — FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	33,128	34,400	36,856	44,750	48,735	52,673	55,443	8.0	5.3	7.6
ENGINEERING	11,887	12,273	13,398	16,272	17,625	19,349	20,958	8.5	8.3	8.4
AEROSPACE	394	440	473	520	565	598	575	7.2	-3.8	5.5
AGRICULTURAL	192	248	285	274	293	298	341	7.6	14.4	8.6
BIOMEDICAL	111	103	116	131	135	157	199	5.9	26.8	8.7
CHEMICAL	1,413	1,537	1,586	1,836	1,960	2,178	2,322	7.5	6.6	7.4
CIVIL	2,040	1,941	2,336	3,054	3,297	3,618	3,972	10.0	9.8	10.0
ELECTRICAL	2,597	2,719	3,012	3,758	4,182	4,651	5,024	10.2	8.0	9.9
ENGINEERING SCIENCE	322	297	359	327	373	384	466	3.0	21.4	5.4
INDUSTRIAL	1,163	1,078	1,236	1,411	1,438	1,565	1,599	5.1	2.2	4.7
MECHANICAL	1,707	1,804	1,868	2,400	2,593	3,020	3,455	10.0	14.4	10.6
METALLURGICAL/MATERIALS	711	728	763	1,018	1,100	1,106	1,173	7.6	6.1	7.4
MINING	147	166	153	112	136	150	117	.3	-22.0	-3.2
NUCLEAR	400	384	387	444	443	427	473	1.1	10.8	2.4
PETROLEUM	154	224	201	231	210	192	256	3.7	33.3	7.5
ENGINEERING, N.E.C.	536	604	623	756	900	1,005	986	11.0	-1.9	9.1
PHYSICAL SCIENCES	4,391	4,427	4,572	5,170	5,589	6,079	6,303	5.6	3.7	5.3
ASTRONOMY	67	68	70	75	84	93	102	5.6	9.7	6.2
CHEMISTRY	2,352	2,466	2,488	2,745	2,869	3,066	3,089	4.5	.8	4.0
PHYSICS	1,966	1,888	2,004	2,345	2,628	2,913	3,107	6.8	6.7	6.8
PHYSICAL SCIENCES, N.E.C.	6	5	10	5	8	7	5	2.6	-28.6	-2.6
ENVIRONMENTAL SCIENCES	870	955	1,056	1,214	1,312	1,436	1,573	8.7	9.5	8.8
ATMOSPHERIC SCIENCES	121	134	129	156	145	179	187	6.7	4.5	6.4
GEOSCIENCES	545	605	686	726	802	869	898	8.1	3.3	7.4
OCEANOGRAPHY	130	143	150	185	208	245	338	11.1	38.0	14.6
ENVIRONMENTAL SCIENCES, N.E.C.	74	73	91	147	157	143	150	11.6	4.9	10.6
MATHEMATICAL/COMPUTER SCIENCES	2,807	3,172	3,376	4,329	5,024	5,728	6,482	12.6	13.2	12.7
COMPUTER SCIENCE	944	1,011	1,028	1,581	1,910	2,262	2,814	15.7	24.4	16.9
MATHEMATICS AND APPLIED MATHEMATICS	1,425	1,668	1,816	2,152	2,488	2,767	2,923	11.7	5.6	10.8
STATISTICS	438	493	532	596	626	699	745	8.1	6.6	7.9
LIFE SCIENCES	6,484	6,719	6,867	8,187	8,496	9,038	9,347	5.7	3.4	5.4
AGRICULTURAL SCIENCES	1,729	1,855	1,846	2,042	2,176	2,298	2,294	4.9	-.2	4.1
BIOLOGICAL SCIENCES	3,458	3,506	3,629	4,158	4,316	4,612	4,839	4.9	4.9	4.9
ANATOMY	65	48	61	82	83	87	89	5.0	2.3	4.6
BIOCHEMISTRY	420	400	422	435	493	584	661	5.6	13.2	6.7
BIOLOGY	557	578	573	674	726	736	745	4.8	1.2	4.2
BIOMETRY/EPIDEMIOLOGY	72	66	93	130	145	161	151	14.4	-6.2	11.2
BIOPHYSICS	90	69	84	72	56	61	70	-6.3	14.8	-3.5
BOTANY	431	454	481	510	513	528	579	3.4	9.7	4.3
CELL BIOLOGY	67	58	62	63	65	79	95	2.8	20.3	5.1
ECOLOGY	33	31	32	50	67	72	80	13.9	11.1	13.5
ENTOMOLOGY/PARASITOLOGY	231	242	234	225	227	263	227	2.2	-13.7	-.2
GENETICS	86	90	104	93	98	90	111	.8	23.3	3.7
MICROBIOLOGY	317	295	297	377	409	416	462	4.6	11.1	5.5
NUTRITION	610	636	676	753	746	799	789	4.6	-1.3	3.7
PATHOLOGY	90	115	104	147	159	176	161	11.8	-8.5	8.7
PHARMACOLOGY	162	151	153	195	185	199	244	3.5	22.6	6.0
PHYSIOLOGY	108	130	110	178	171	180	188	8.9	4.4	8.2
ZOOLOGY	110	131	126	137	131	134	133	3.3	-.7	2.7
BIOSCIENCES, N.E.C.	9	12	17	37	42	47	54	31.7	14.9	29.2
HEALTH SCIENCES	1,297	1,358	1,392	1,987	2,004	2,128	2,214	8.6	4.0	7.9
ANESTHESIOLOGY	3	1	0	1	1	1	2	-16.7	100.0	-5.6
CANCER/ONCOLOGY	7	8	10	6	6	6	0	-2.5	-100.0	-100.0
CARDIOLOGY	5	0	0	0	5	1	0	-23.5	-100.0	-100.0
DENTISTRY	102	152	159	231	243	190	157	10.9	-17.4	6.4
ENDOCRINOLOGY	4	5	3	1	1	3	7	-4.7	133.3	8.3
GASTROENTEROLOGY	1	0	0	0	0	1	0	.0	-100.0	-100.0
HEMATOLOGY	0	0	2	1	0	0	0	**	**	**
NEUROLOGY	17	10	17	18	20	19	17	1.9	-10.5	.0
NURSING	53	70	146	182	173	220	197	26.8	-10.5	20.6
OBSTETRICS/GYNECOLOGY	8	8	5	8	1	2	10	-20.6	400.0	3.2
OPHTHALMOLOGY	2	0	0	1	2	3	4	7.0	33.3	10.4
OTORHINOLARYNGOLOGY	9	12	4	3	0	0	0	-100.0	**	-100.0
PEDIATRICS	7	5	5	3	8	19	19	18.1	.0	15.3
PHARMACEUTICAL SCIENCES	409	403	425	477	462	538	582	4.7	8.2	5.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	292	300	251	499	578	578	695	12.1	20.2	13.2
PSYCHIATRY	2	4	3	4	2	0	6	-100.0	**	17.0
PULMONARY DISEASE	0	0	0	0	0	0	1	**	**	**
RADIOLOGY	31	36	34	39	37	37	39	3.0	5.4	3.3
SPEECH PATHOLOGY/AUDIOLOGY	146	118	103	207	191	229	188	7.8	-17.9	3.7
SURGERY	19	21	12	11	14	9	19	-11.7	111.1	.0
VETERINARY SCIENCES	93	108	119	143	111	108	92	2.5	-14.8	-.2
CLINICAL MEDICINE, N.E.C.	34	19	25	23	30	33	46	-.5	39.4	4.4
HEALTH RELATED, N.E.C.	53	78	69	129	119	131	133	16.3	1.5	14.0
PSYCHOLOGY	575	572	621	968	1,055	832	898	6.4	7.9	6.6
SOCIAL SCIENCES	6,114	6,282	6,966	8,610	9,634	10,211	9,882	8.9	-3.2	7.1
AGRICULTURAL ECONOMICS	623	587	623	650	736	757	690	3.3	-8.9	1.5
ANTHROPOLOGY	254	253	286	321	389	422	379	8.8	-10.2	5.9
ECONOMICS (EXCEPT AGRICULTURAL)	2,241	2,494	2,677	3,022	3,359	3,524	3,390	7.8	-3.8	6.1
GEOGRAPHY	239	242	249	334	361	352	381	6.7	8.2	6.9
HISTORY AND PHILOSOPHY OF SCIENCE	25	24	25	30	25	30	35	3.1	16.7	4.9
LINGUISTICS	358	400	458	611	739	732	708	12.7	-3.3	10.2
POLITICAL SCIENCE	1,208	1,116	1,383	1,968	2,211	2,378	2,347	12.0	-1.3	10.0
SOCIOLOGY	625	638	677	818	919	1,037	980	8.8	-5.5	6.6
SOCIOLOGY/ANTHROPOLOGY	62	60	63	106	100	96	127	7.6	32.3	10.8
SOCIAL SCIENCES, N.E.C.	479	468	525	750	795	883	845	10.7	-4.3	8.4

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	83,433	84,070	89,116	93,227	97,171	103,195	105,809	109,738	4.0	3.7	4.0
ENGINEERING	27,496	27,657	28,656	28,302	28,973	29,738	31,543	31,356	2.3	-.6	1.9
AEROSPACE	411	296	318	315	325	406	396	414	-.6	4.5	.1
AGRICULTURAL	87	110	89	124	95	111	130	136	6.9	4.6	6.6
BIOMEDICAL	108	173	155	194	179	175	159	156	6.7	-1.9	5.4
CHEMICAL	1,434	1,413	1,228	1,286	1,253	1,448	1,356	1,406	-.9	3.7	-.3
CIVIL	4,698	4,473	4,632	4,534	4,607	4,560	4,599	4,222	-.4	-8.2	-1.5
ELECTRICAL	7,421	7,148	8,020	8,144	7,967	8,450	8,744	9,316	2.8	6.5	3.3
ENGINEERING SCIENCE	547	589	522	555	490	537	594	657	1.4	10.6	2.7
INDUSTRIAL	6,920	7,470	7,266	6,818	7,540	6,991	7,579	7,085	1.5	-6.5	.3
MECHANICAL	3,239	3,007	3,357	3,254	3,217	3,425	3,576	3,637	1.7	1.7	1.7
METALLURGICAL/MATERIALS	532	479	549	526	536	603	611	577	2.3	-5.6	1.2
MINING	64	104	87	83	91	88	72	73	2.0	1.4	1.9
NUCLEAR	356	366	318	264	239	198	251	259	-5.7	3.2	-4.4
PETROLEUM	74	53	78	99	87	130	128	110	9.6	-14.1	5.8
ENGINEERING, N.E.C.	1,605	1,976	2,037	2,106	2,347	2,616	3,348	3,308	13.0	-1.2	10.9
PHYSICAL SCIENCES	3,255	3,231	3,068	3,218	3,126	3,139	3,180	3,153	-.4	-.8	-.5
ASTRONOMY	52	60	45	37	38	35	32	42	-7.8	31.3	-3.0
CHEMISTRY	2,046	2,015	2,026	2,122	2,044	2,029	2,082	2,027	.3	-2.6	-.1
PHYSICS	1,138	1,139	983	1,033	1,029	1,060	1,050	1,066	-1.3	1.5	-.9
PHYSICAL SCIENCES, N.E.C.	19	17	14	26	15	15	16	18	-2.8	12.5	-.8
ENVIRONMENTAL SCIENCES	1,972	1,994	2,192	2,142	2,275	2,369	2,419	2,722	3.5	12.5	4.7
ATMOSPHERIC SCIENCES	105	108	112	121	104	127	139	117	4.8	-15.8	1.6
GEOSCIENCES	1,118	1,121	1,193	1,253	1,395	1,349	1,431	1,729	4.2	20.8	6.4
OCEANOGRAPHY	296	270	404	342	341	317	344	383	2.5	11.3	3.7
ENVIRONMENTAL SCIENCES, N.E.C.	453	495	483	426	435	576	505	493	1.8	-2.4	1.2
MATHEMATICAL/COMPUTER SCIENCES	7,218	7,142	7,096	7,784	8,445	9,728	10,972	12,247	7.2	11.6	7.8
COMPUTER SCIENCE	2,866	2,953	3,294	4,125	4,754	5,765	6,986	8,003	16.0	14.6	15.8
MATHEMATICS AND APPLIED MATHEMATICS	3,976	3,830	3,472	3,315	3,349	3,590	3,675	3,901	-1.3	6.1	-.3
STATISTICS	376	359	330	344	342	373	311	343	-3.1	10.3	-1.3
LIFE SCIENCES	13,966	15,328	19,126	20,753	21,039	22,980	23,735	25,250	9.2	6.4	8.8
AGRICULTURAL SCIENCES	1,560	1,558	1,640	1,829	1,910	2,005	1,735	2,119	1.8	22.1	4.5
BIOLOGICAL SCIENCES	6,145	6,407	7,010	7,226	6,824	6,899	6,589	6,773	1.2	2.8	1.4
ANATOMY	101	90	117	126	92	91	108	144	1.1	33.3	5.2
BIOCHEMISTRY	271	235	231	294	307	273	273	263	.1	-3.7	-.4
BIOLOGY	2,756	2,865	2,899	2,822	2,678	2,775	2,509	2,310	-1.6	-7.9	-2.5
BIOMETRY/EPIDEMIOLOGY	104	121	171	166	162	216	185	249	10.1	34.6	13.3
BIOPHYSICS	92	21	17	12	27	9	6	17	-36.6	183.3	-21.4
BOTANY	408	425	409	415	346	398	422	451	.6	6.9	1.4
CELL BIOLOGY	31	39	41	20	25	25	22	26	-5.6	18.2	-2.5
ECOLOGY	61	96	93	120	135	143	86	83	5.9	-3.5	4.5
ENTOMOLOGY/PARASITOLOGY	192	179	213	203	234	197	212	200	1.7	-5.7	.6
GENETICS	60	71	73	88	90	75	61	61	.3	.0	.2
MICROBIOLOGY	431	512	581	614	489	419	425	501	-.2	17.9	2.2
NUTRITION	399	526	849	899	731	916	1,015	1,061	16.8	4.5	15.0
PATHOLOGY	349	380	465	445	464	457	445	481	4.1	8.1	4.7
PHARMACOLOGY	101	116	125	142	145	121	100	134	-.2	34.0	4.1
PHYSIOLOGY	192	192	145	288	299	247	217	253	2.1	16.6	4.0
ZOOLOGY	462	412	436	451	458	396	357	353	-4.2	-1.1	-3.8
BIOSCIENCES, N.E.C.	135	127	145	121	142	141	146	186	1.3	27.4	4.7
HEALTH SCIENCES	6,261	7,363	10,476	11,698	12,305	14,076	15,411	16,358	16.2	6.1	14.7
ANESTHESIOLOGY	0	0	2	3	2	4	4	20	**	400.0	**
CANCER/ONCOLOGY	4	5	0	0	2	2	2	2	-10.9	.0	-9.4
CARDIOLOGY	1	2	2	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	160	145	195	213	128	144	201	122	3.9	-39.3	-3.8
ENDOCRINOLOGY	0	3	6	1	6	5	5	3	**	-40.0	**
GASTROENTEROLOGY	4	0	0	0	0	0	1	0	-20.6	-100.0	-100.0
HEMATOLOGY	0	1	11	8	6	8	0	1	**	**	**
NEUROLOGY	6	9	9	4	8	9	2	7	-16.7	250.0	2.2
NURSING	1,993	2,791	4,731	5,247	5,460	6,510	7,336	8,236	24.3	12.3	22.5
OBSTETRICS/GYNECOLOGY	2	7	2	3	3	1	3	4	7.0	33.3	10.4
OPHTHALMOLOGY	5	5	7	1	1	1	3	3	-8.2	.0	-7.0
OTORHINOLARYNGOLOGY	4	4	1	1	2	0	0	1	-100.0	**	-18.0
PEDIATRICS	27	72	40	43	12	11	4	10	-27.3	150.0	-13.2
PHARMACEUTICAL SCIENCES	765	795	907	949	851	825	913	832	3.0	-8.9	1.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	754	1,139	1,447	1,676	2,008	2,500	2,663	2,633	23.4	-1.1	19.6
PSYCHIATRY	54	33	23	23	13	2	49	57	-1.6	16.3	.8
PULMONARY DISEASE	0	0	0	0	0	0	0	2	**	**	**
RADIOLOGY	57	15	41	33	63	50	40	84	-5.7	110.0	5.7
SPEECH PATHOLOGY/AUDIOLOGY	1,674	1,529	1,878	2,134	2,104	2,083	2,134	2,282	4.1	6.9	4.5
SURGERY	33	37	40	37	19	24	34	25	.5	-26.5	-3.9
VETERINARY SCIENCES	81	96	106	100	105	114	108	90	4.9	-16.7	1.5
CLINICAL MEDICINE, N.E.C.	27	51	86	115	118	125	144	126	32.2	-12.5	24.6
HEALTH RELATED, N.E.C.	610	624	942	1,107	1,394	1,658	1,765	1,818	19.4	3.0	16.9
PSYCHOLOGY	7,213	6,595	6,788	7,198	7,232	7,831	7,518	7,929	.7	5.5	1.4
SOCIAL SCIENCES	22,313	22,123	22,190	23,830	26,081	27,410	26,442	27,081	2.9	2.4	2.8
AGRICULTURAL ECONOMICS	211	215	237	230	246	268	217	255	.5	17.5	2.7
ANTHROPOLOGY	1,364	1,314	1,264	1,365	1,447	1,447	1,561	1,661	2.3	6.4	2.9
ECONOMICS (EXCEPT AGRICULTURAL)	3,024	3,194	3,089	3,078	3,174	3,304	3,318	3,593	1.6	8.3	2.5
GEOGRAPHY	778	840	783	771	727	695	699	738	-1.8	5.6	-.8
HISTORY AND PHILOSOPHY OF SCIENCE	44	52	43	40	31	39	31	33	-5.7	6.5	-4.0
LINGUISTICS	390	357	459	393	641	597	739	526	11.2	-28.8	4.4
POLITICAL SCIENCE	8,477	8,786	8,636	9,550	11,360	12,605	11,541	11,376	5.3	-1.4	4.3
SOCIOLOGY	2,553	2,371	2,222	2,310	2,210	2,090	2,064	2,149	-3.5	4.1	-2.4
SOCIOLOGY/ANTHROPOLOGY	470	483	399	409	424	413	430	372	-1.5	-13.5	-3.3
SOCIAL SCIENCES, N.E.C.	5,002	4,511	5,058	5,684	5,821	5,952	5,842	6,378	2.6	9.2	3.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. -- MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	63,396	64,415	66,843	66,474	66,965	1.2	0.7	1.1
ENGINEERING	27,265	26,777	27,254	28,414	27,879	1.0	-1.9	.4
AEROSPACE	312	312	386	380	377	5.1	-.8	3.9
AGRICULTURAL	87	91	110	129	129	10.3	.0	8.2
BIOMEDICAL	143	168	144	135	120	-1.4	-11.1	-3.4
CHEMICAL	1,136	1,087	1,244	1,135	1,199	*	5.6	1.1
CIVIL	4,395	4,277	4,154	4,197	3,751	-1.1	-10.6	-3.1
ELECTRICAL	7,711	7,517	8,047	8,237	8,652	1.7	5.0	2.3
ENGINEERING SCIENCE	497	432	480	503	541	.3	7.6	1.7
INDUSTRIAL	6,803	6,777	6,126	6,391	5,926	-1.5	-7.3	-2.7
MECHANICAL	3,237	3,038	3,235	3,320	3,379	.6	1.8	.9
METALLURGICAL/MATERIALS	516	475	536	519	474	.1	-8.7	-1.7
MINING	86	89	87	70	68	-5.0	-2.9	-4.6
NUCLEAR	309	229	190	239	246	-6.2	2.9	-4.5
PETROLEUM	75	85	116	110	101	10.0	-8.2	6.1
ENGINEERING, N.E.C.	1,958	2,200	2,399	3,049	2,916	11.7	-4.4	8.3
PHYSICAL SCIENCES	2,516	2,469	2,455	2,440	2,438	-.8	-.1	-.6
ASTRONOMY	38	31	25	24	35	-10.9	45.8	-1.6
CHEMISTRY	1,565	1,496	1,473	1,475	1,445	-1.5	-2.0	-1.6
PHYSICS	901	929	948	934	948	.9	1.5	1.0
PHYSICAL SCIENCES, N.E.C.	12	13	9	7	10	-12.6	42.9	-3.6
ENVIRONMENTAL SCIENCES	1,869	1,802	1,828	1,793	2,011	-1.0	12.2	1.5
ATMOSPHERIC SCIENCES	106	93	107	121	103	3.4	-14.9	-.6
GEOSCIENCES	986	1,095	1,073	1,087	1,305	2.5	20.1	5.8
OCEANOGRAPHY	359	281	250	248	285	-8.8	14.9	-4.5
ENVIRONMENTAL SCIENCES, N.E.C.	418	333	398	337	318	-5.2	-5.6	-5.3
MATHEMATICAL/COMPUTER SCIENCES	5,294	6,216	7,161	7,838	8,532	10.3	8.9	10.0
COMPUTER SCIENCE	2,658	3,733	4,441	5,141	5,747	17.9	11.8	16.7
MATHEMATICS AND APPLIED MATHEMATICS	2,408	2,258	2,457	2,482	2,533	.8	2.1	1.0
STATISTICS	228	225	263	215	252	-1.5	17.2	2.0
LIFE SCIENCES	8,394	8,228	8,608	8,127	8,209	-.8	1.0	-.4
AGRICULTURAL SCIENCES	1,393	1,519	1,577	1,388	1,620	-.1	16.7	3.1
BIOLOGICAL SCIENCES	4,231	3,924	3,806	3,366	3,423	-5.6	1.7	-4.1
ANATOMY	76	59	58	66	93	-3.5	40.9	4.1
BIOCHEMISTRY	149	187	173	169	153	3.2	-9.5	.5
BIOLOGY	1,901	1,572	1,649	1,425	1,294	-7.0	-9.2	-7.4
BIOMETRY/EPIDEMIOLOGY	87	86	105	85	109	-.6	28.2	4.6
BIOPHYSICS	16	21	7	4	14	-29.3	250.0	-2.6
BOTANY	304	230	262	261	292	-3.7	11.9	-.8
CELL BIOLOGY	30	19	16	14	17	-17.3	21.4	-10.7
ECOLOGY	71	98	116	67	58	-1.4	-13.4	-4.0
ENTOMOLOGY/PARASITOLOGY	176	187	151	164	137	-1.7	-16.5	-4.9
GENETICS	29	51	30	19	19	-10.0	.0	-8.1
MICROBIOLOGY	307	288	226	206	249	-9.5	20.9	-4.1
NUTRITION	219	165	198	170	206	-6.1	21.2	-1.2
PATHOLOGY	271	265	232	198	212	-7.5	7.1	-4.8
PHARMACOLOGY	97	91	75	59	87	-11.7	47.5	-2.2
PHYSIOLOGY	95	196	165	152	165	12.5	8.6	11.7
ZOOLOGY	297	316	256	221	206	-7.1	-6.8	-7.1
BIOSCIENCES, N.E.C.	106	93	87	86	112	-5.1	30.2	1.1
HEALTH SCIENCES	2,770	2,785	3,225	3,373	3,166	5.0	-6.1	2.7
ANESTHESIOLOGY	2	2	1	0	5	-100.0	**	20.1
CANCER/ONCOLOGY	0	2	2	2	2	**	.0	**
CARDIOLOGY	2	0	0	0	0	-100.0	**	-100.0
DENTISTRY	143	93	104	114	94	-5.5	-17.5	-8.0
ENDOCRINOLOGY	5	2	5	4	3	-5.4	-25.0	-9.7
GASTROENTEROLOGY	0	0	0	0	0	**	**	**
HEMATOLOGY	4	3	2	0	0	-100.0	**	-100.0
NEUROLOGY	8	5	8	1	5	-40.5	400.0	-9.0
NURSING	100	189	316	316	276	33.3	-12.7	22.5
OBSTETRICS/GYNECOLOGY	1	1	0	1	2	.0	100.0	14.9
OPHTHALMOLOGY	7	1	1	1	1	-38.5	.0	-32.2
OTORHINOLARYNGOLOGY	1	1	0	0	1	-100.0	**	.0
PEDIATRICS	9	9	5	3	3	-24.0	.0	-19.7
PHARMACEUTICAL SCIENCES	565	541	570	654	573	3.7	-12.4	.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	786	960	1,207	1,242	1,128	12.1	-9.2	7.5
PSYCHIATRY	12	3	1	30	25	25.7	-16.7	15.8
PULMONARY DISEASE	0	0	0	0	0	**	**	**
RADIOLOGY	30	60	45	29	73	-.8	151.7	19.5
SPEECH PATHOLOGY/AUDIOLOGY	402	356	318	290	312	-7.8	7.6	-4.9
SURGERY	38	17	20	27	21	-8.2	-22.2	-11.2
VETERINARY SCIENCES	71	73	65	63	55	-2.9	-12.7	-5.0
CLINICAL MEDICINE, N.E.C.	47	36	41	67	67	9.3	.0	7.3
HEALTH RELATED, N.E.C.	537	431	514	529	520	-.4	-1.7	-.6
PSYCHOLOGY	3,645	3,313	3,610	3,324	3,326	-2.3	.1	-1.8
SOCIAL SCIENCES	14,413	15,610	15,927	14,538	14,570	.2	.2	.2
AGRICULTURAL ECONOMICS	197	201	216	185	195	-1.6	5.4	-.2
ANTHROPOLOGY	640	736	676	713	698	2.7	-2.1	1.8
ECONOMICS (EXCEPT AGRICULTURAL)	2,458	2,413	2,484	2,392	2,579	-.7	7.8	1.0
GEOGRAPHY	605	520	491	485	496	-5.4	2.3	-3.9
HISTORY AND PHILOSOPHY OF SCIENCE	32	20	21	17	18	-14.6	5.9	-10.9
LINGUISTICS	203	293	266	314	214	11.5	-31.8	1.1
POLITICAL SCIENCE	6,128	7,371	7,896	6,844	6,817	2.8	-.4	2.2
SOCIOLOGY	1,203	1,129	1,046	989	954	-4.8	-3.5	-4.5
SOCIOLOGY/ANTHROPOLOGY	270	200	205	191	163	-8.3	-14.7	-9.6
SOCIAL SCIENCES, N.E.C.	2,677	2,727	2,626	2,408	2,436	-2.6	1.2	-1.9

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. -- FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	25,720	32,756	36,352	39,335	42,773	11.2	8.7	10.7
ENGINEERING	1,391	2,196	2,484	3,129	3,477	22.5	11.1	20.1
AEROSPACE	6	13	20	16	37	27.8	131.3	43.9
AGRICULTURAL	2	4	1	1	7	-15.9	600.0	28.5
BIOMEDICAL	12	11	31	24	36	18.9	50.0	24.6
CHEMICAL	92	166	204	221	207	24.5	-6.3	17.6
CIVIL	237	330	406	402	471	14.1	17.2	14.7
ELECTRICAL	309	450	403	507	664	13.2	31.0	16.5
ENGINEERING SCIENCE	25	58	57	91	116	38.1	27.5	35.9
INDUSTRIAL	463	763	865	1,188	1,159	26.6	-2.4	20.1
MECHANICAL	120	179	190	256	258	20.9	.8	16.5
METALLURGICAL/MATERIALS	33	61	67	92	103	29.2	12.0	25.6
MINING	1	2	1	2	5	18.9	150.0	38.0
NUCLEAR	9	10	8	12	13	7.5	8.3	7.6
PETROLEUM	3	2	14	18	9	56.5	-50.0	24.6
ENGINEERING, N.E.C.	79	147	217	299	392	39.5	31.1	37.8
PHYSICAL SCIENCES	552	657	686	740	715	7.6	-3.4	5.3
ASTRONOMY	7	7	10	8	7	3.4	-12.5	.0
CHEMISTRY	461	548	556	607	582	7.1	-4.1	4.8
PHYSICS	82	100	112	116	118	9.1	1.7	7.6
PHYSICAL SCIENCES, N.E.C.	2	2	6	9	8	45.6	-11.1	32.0
ENVIRONMENTAL SCIENCES	323	473	541	626	711	18.0	13.6	17.1
ATMOSPHERIC SCIENCES	6	11	20	18	14	31.6	-22.2	18.5
GEOSCIENCES	207	300	276	344	424	13.5	23.3	15.4
OCEANOGRAPHY	45	60	67	96	98	20.9	2.1	16.8
ENVIRONMENTAL SCIENCES, N.E.C.	65	102	178	168	175	26.8	4.2	21.9
MATHEMATICAL/COMPUTER SCIENCES	1,802	2,229	2,567	3,134	3,715	14.8	18.5	15.6
COMPUTER SCIENCE	636	1,021	1,324	1,845	2,256	30.5	22.3	28.8
MATHEMATICS AND APPLIED MATHEMATICS	1,064	1,091	1,133	1,193	1,368	2.9	14.7	5.2
STATISTICS	102	117	110	96	91	-1.5	-5.2	-2.3
LIFE SCIENCES	10,732	12,811	14,372	15,608	17,041	9.8	9.2	9.7
AGRICULTURAL SCIENCES	247	391	428	347	499	8.9	43.8	15.1
BIOLOGICAL SCIENCES	2,779	2,900	3,093	3,223	3,350	3.8	3.9	3.8
ANATOMY	41	33	33	42	51	.6	21.4	4.5
BIOCHEMISTRY	82	120	100	104	110	6.1	5.8	6.1
BIOLOGY	998	1,106	1,126	1,084	1,016	2.1	-6.3	.4
BIOMETRY/EPIDEMIOLOGY	84	76	111	100	140	4.5	40.0	10.8
BIOPHYSICS	1	6	2	2	3	18.9	50.0	24.6
BOTANY	105	116	136	161	159	11.3	-1.2	8.7
CELL BIOLOGY	11	6	9	8	9	-7.7	12.5	-3.9
ECOLOGY	22	37	27	19	25	-3.6	31.6	2.6
ENTOMOLOGY/PARASITOLOGY	37	47	46	48	63	6.7	31.3	11.2
GENETICS	44	39	45	42	42	-1.2	.0	-.9
MICROBIOLOGY	274	201	193	219	252	-5.4	15.1	-1.7
NUTRITION	630	566	718	845	855	7.6	1.2	6.3
PATHOLOGY	194	199	225	247	269	6.2	8.9	6.8
PHARMACOLOGY	28	54	46	41	47	10.0	14.6	10.9
PHYSIOLOGY	50	103	82	65	88	6.8	35.4	12.0
ZOOLOGY	139	142	140	136	147	-.5	8.1	1.1
BIOSCIENCES, N.E.C.	39	49	54	60	74	11.4	23.3	13.7
HEALTH SCIENCES	7,706	9,520	10,851	12,038	13,192	11.8	9.6	11.4
ANESTHESIOLOGY	0	0	3	4	15	**	275.0	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	52	35	40	87	28	13.7	-67.8	-11.6
ENDOCRINOLOGY	1	4	0	1	0	.0	-100.0	-100.0
GASTROENTEROLOGY	0	0	0	1	0	**	-100.0	**
HEMATOLOGY	7	3	6	0	1	-100.0	**	-32.2
NEUROLOGY	1	3	1	1	2	.0	100.0	14.9
NURSING	4,631	5,271	6,194	7,020	7,960	11.0	13.4	11.4
OBSTETRICS/GYNECOLOGY	1	2	1	2	2	18.9	.0	14.9
OPHTHALMOLOGY	0	0	0	2	2	**	.0	**
OTORHINOLARYNGOLOGY	0	1	0	0	0	**	**	**
PEDIATRICS	31	3	6	1	7	-57.6	600.0	-25.7
PHARMACEUTICAL SCIENCES	342	310	255	259	259	-6.7	.0	-5.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	661	1,048	1,293	1,421	1,505	21.1	5.9	17.9
PSYCHIATRY	11	10	1	19	32	14.6	68.4	23.8
PULMONARY DISEASE	0	0	0	0	2	**	**	**
RADIOLOGY	11	3	5	11	11	.0	.0	.0
SPEECH PATHOLOGY/AUDIOLOGY	1,476	1,748	1,765	1,844	1,970	5.7	6.8	5.9
SURGERY	2	2	4	7	4	36.8	-42.9	14.9
VETERINARY SCIENCES	35	32	49	45	35	6.5	-22.2	.0
CLINICAL MEDICINE, N.E.C.	39	82	84	77	59	18.5	-23.4	8.6
HEALTH RELATED, N.E.C.	405	963	1,144	1,236	1,298	32.2	5.0	26.2
PSYCHOLOGY	3,143	3,919	4,221	4,194	4,603	7.5	9.8	7.9
SOCIAL SCIENCES	7,777	10,471	11,483	11,904	12,511	11.2	5.1	10.0
AGRICULTURAL ECONOMICS	40	45	52	32	60	-5.4	87.5	8.4
ANTHROPOLOGY	624	711	771	848	963	8.0	13.6	9.1
ECONOMICS (EXCEPT AGRICULTURAL)	631	761	820	926	1,014	10.1	9.5	10.0
GEOGRAPHY	178	207	204	214	242	4.7	13.1	6.3
HISTORY AND PHILOSOPHY OF SCIENCE	11	11	18	14	15	6.2	7.1	6.4
LINGUISTICS	256	348	331	425	312	13.5	-26.6	4.0
POLITICAL SCIENCE	2,508	3,989	4,709	4,697	4,559	17.0	-2.9	12.7
SOCIOLOGY	1,019	1,081	1,044	1,075	1,195	1.3	11.2	3.2
SOCIOLOGY/ANTHROPOLOGY	129	224	208	239	209	16.7	-12.6	10.1
SOCIAL SCIENCES, N.E.C.	2,381	3,094	3,326	3,434	3,942	9.6	14.8	10.6

1/ DISTRIBUTION BY SEX WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL CHANGE		PERCENT
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	50,129	49,653	51,275	54,692	56,426	59,697	59,536	64,562	2.9	8.4	3.7
ENGINEERING	13,521	13,543	13,381	13,448	13,282	13,710	14,178	15,388	.8	8.5	1.9
AEROSPACE	334	244	246	249	257	287	269	241	-3.5	-10.4	-4.6
AGRICULTURAL	86	109	89	124	95	111	130	135	7.1	3.8	6.7
BIOMEDICAL	39	106	61	86	85	90	70	85	10.2	21.4	11.8
CHEMICAL	944	897	727	781	757	904	791	876	-2.9	10.7	-1.1
CIVIL	2,695	2,571	2,738	2,700	2,655	2,564	2,448	2,352	-1.6	-3.9	-1.9
ELECTRICAL	3,439	3,300	3,604	3,592	3,622	3,520	3,588	4,201	.7	17.1	2.9
ENGINEERING SCIENCE	515	565	493	509	435	458	505	544	-.3	7.7	.8
INDUSTRIAL	1,887	2,049	1,669	1,698	1,599	1,584	1,578	1,772	-2.9	12.3	-.9
MECHANICAL	2,003	1,954	1,958	1,971	1,852	1,999	2,019	2,101	.1	4.1	.7
METALLURGICAL/MATERIALS	305	261	266	262	276	326	288	292	-1.0	1.4	-.6
MINING	59	98	82	78	86	83	69	65	2.6	-5.8	1.4
NUCLEAR	165	209	185	176	173	135	184	203	1.8	10.3	3.0
PETROLEUM	16	32	45	62	60	45	37	36	15.0	-2.7	12.3
ENGINEERING, N.E.C.	1,034	1,148	1,218	1,160	1,330	1,604	2,202	2,485	13.4	12.9	13.3
PHYSICAL SCIENCES	1,992	1,933	1,844	1,998	1,987	1,938	1,959	2,049	-.3	4.6	.4
ASTRONOMY	46	53	39	37	36	31	31	38	-6.4	22.6	-2.7
CHEMISTRY	1,263	1,212	1,169	1,242	1,245	1,175	1,201	1,241	-.8	3.3	-.3
PHYSICS	664	651	622	705	691	717	711	752	1.1	5.8	1.8
PHYSICAL SCIENCES, N.E.C.	19	17	14	14	15	15	16	18	-2.8	12.5	-.8
ENVIRONMENTAL SCIENCES	1,668	1,707	1,818	1,817	1,970	2,088	2,138	2,434	4.2	13.8	5.5
ATMOSPHERIC SCIENCES	90	98	109	120	103	95	128	110	6.0	-14.1	2.9
GEOSCIENCES	862	883	974	1,056	1,145	1,130	1,206	1,515	5.8	25.6	8.4
OCEANOGRAPHY	264	237	258	225	307	302	328	346	3.7	5.5	3.9
ENVIRONMENTAL SCIENCES, N.E.C.	452	489	477	416	415	557	476	463	.9	-2.7	.3
MATHEMATICAL/COMPUTER SCIENCES	4,711	4,731	4,367	4,654	4,747	5,315	5,495	6,274	2.6	14.2	4.2
COMPUTER SCIENCE	1,858	1,958	1,911	2,241	2,367	2,871	3,182	3,784	9.4	18.9	10.7
MATHEMATICS AND APPLIED MATHEMATICS	2,572	2,514	2,211	2,150	2,116	2,148	2,071	2,213	-3.5	6.9	-2.1
STATISTICS	281	259	245	263	264	296	242	277	-2.5	14.5	-.2
LIFE SCIENCES	10,500	11,166	12,845	14,330	14,700	16,301	16,065	17,645	7.3	9.8	7.7
AGRICULTURAL SCIENCES	1,549	1,549	1,624	1,814	1,894	1,995	1,722	2,100	1.8	22.0	4.4
BIOLOGICAL SCIENCES	4,177	4,239	4,586	4,954	4,645	4,857	4,422	4,651	1.0	5.2	1.5
ANATOMY	79	70	79	103	72	70	76	85	-.6	11.8	1.1
BIOCHEMISTRY	224	187	186	207	229	177	136	159	-8.0	16.9	-4.8
BIOLOGY	1,451	1,524	1,458	1,554	1,474	1,663	1,386	1,242	-.8	-10.4	-2.2
BIOMETRY/EPIDEMIOLOGY	62	61	98	105	111	138	92	147	6.8	59.8	13.1
BIOPHYSICS	89	19	15	12	27	9	6	17	-36.2	183.3	-21.1
BOTANY	373	384	384	383	324	378	395	434	1.0	9.9	2.2
CELL BIOLOGY	20	24	32	15	22	19	17	11	-2.7	-35.3	-8.2
ECOLOGY	61	95	93	120	135	143	86	83	5.9	-3.5	4.5
ENTOMOLOGY/PARASITOLOGY	192	179	210	199	230	194	210	199	1.5	-5.2	.5
GENETICS	50	34	32	38	45	27	28	29	-9.2	3.6	-7.5
MICROBIOLOGY	322	406	446	527	415	354	319	394	-.2	23.5	2.9
NUTRITION	338	450	719	809	612	787	817	847	15.8	3.7	14.0
PATHOLOGY	226	146	189	173	197	222	231	269	.4	16.5	2.5
PHARMACOLOGY	59	75	78	80	62	72	57	97	-.6	70.2	7.4
PHYSIOLOGY	151	151	115	175	199	170	162	195	1.2	20.4	3.7
ZOOLOGY	446	406	417	424	437	378	327	330	-5.0	.9	-4.2
BIOSCIENCES, N.E.C.	34	28	35	30	54	56	77	113	14.6	46.8	18.7
HEALTH SCIENCES	4,774	5,378	6,635	7,562	8,161	9,449	9,921	10,894	13.0	9.8	12.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	16	**	**	**
CANCER/ONCOLOGY	4	5	0	0	2	2	2	1	-10.9	-50.0	-18.0
CARDIOLOGY	0	2	0	0	0	0	0	0	**	**	**
DENTISTRY	75	67	74	104	77	90	106	82	5.9	-22.6	1.3
ENDOCRINOLOGY	0	1	1	1	6	5	5	3	**	-40.0	**
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	1	0	0	**	**	**
NEUROLOGY	6	2	2	3	8	4	2	7	-16.7	250.0	2.2
NURSING	1,813	2,322	3,173	3,658	3,887	4,892	5,127	5,780	18.9	12.7	18.0
OBSTETRICS/GYNECOLOGY	2	5	0	1	1	0	2	3	.0	50.0	6.0
OPHTHALMOLOGY	5	4	6	1	1	1	3	3	-8.2	.0	-7.0
OTORHINOLARYNGOLOGY	4	4	0	1	2	0	0	1	-100.0	**	-18.0
PEDIATRICS	21	69	37	38	0	3	1	2	-39.8	100.0	-28.5
PHARMACEUTICAL SCIENCES	229	208	216	226	207	230	251	266	1.5	6.0	2.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	522	692	848	928	1,097	1,286	1,321	1,308	16.7	-1.0	14.0
PSYCHIATRY	28	26	10	10	0	2	15	49	-9.9	226.7	8.3
PULMONARY DISEASE	0	0	0	0	0	0	0	2	**	**	**
RADIOLOGY	54	13	40	32	58	49	34	77	-7.4	126.5	5.2
SPEECH PATHOLOGY/AUDIOLOGY	1,329	1,281	1,554	1,733	1,794	1,743	1,828	2,022	5.5	10.6	6.2
SURGERY	32	33	29	29	17	24	28	25	-2.2	-10.7	-3.5
VETERINARY SCIENCES	80	96	106	100	105	114	108	90	5.1	-16.7	1.7
CLINICAL MEDICINE, N.E.C.	27	48	85	95	92	112	114	102	27.1	-10.5	20.9
HEALTH RELATED, N.E.C.	543	500	454	602	807	892	974	1,055	10.2	8.3	10.0
PSYCHOLOGY	3,633	2,973	3,202	3,265	3,360	3,711	3,518	3,973	-.5	12.9	1.3
SOCIAL SCIENCES	14,104	13,600	13,818	15,180	16,380	16,634	16,183	16,799	2.3	3.8	2.5
AGRICULTURAL ECONOMICS	211	215	237	230	246	268	215	251	.3	16.7	2.5
ANTHROPOLOGY	881	928	869	995	1,032	1,023	1,108	1,227	3.9	10.7	4.8
ECONOMICS (EXCEPT AGRICULTURAL)	1,852	1,825	1,746	1,960	1,850	1,916	1,736	1,902	-1.1	9.6	.4
GEOGRAPHY	715	806	745	732	669	652	668	704	-1.1	5.4	-.2
HISTORY AND PHILOSOPHY OF SCIENCE	23	29	28	21	17	26	19	26	-3.1	36.8	1.8
LINGUISTICS	220	178	250	248	273	267	415	342	11.2	-17.6	6.5
POLITICAL SCIENCE	4,823	4,701	4,892	5,147	6,182	6,744	6,242	6,267	4.4	.4	3.8
SOCIOLOGY	1,744	1,524	1,384	1,606	1,508	1,355	1,354	1,416	-4.1	4.6	-2.9
SOCIOLOGY/ANTHROPOLOGY	324	356	249	250	219	202	201	199	-7.6	-1.0	-6.7
SOCIAL SCIENCES, N.E.C.	3,311	3,038	3,418	3,991	4,384	4,181	4,225	4,465	4.1	5.7	4.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	33,304	34,417	37,841	38,535	40,745	43,498	46,273	45,176	5.6	-2.4	4.5
ENGINEERING	13,975	14,114	15,275	14,854	15,691	16,028	17,365	15,968	3.7	-8.0	1.9
AEROSPACE	77	52	72	66	68	119	127	173	8.7	36.2	12.3
AGRICULTURAL	1	1	0	0	0	0	0	1	-100.0	**	.0
BIOMEDICAL	69	67	94	108	94	85	89	71	4.3	-20.2	.4
CHEMICAL	490	516	501	505	496	544	565	530	2.4	-6.2	1.1
CIVIL	2,003	1,902	1,894	1,834	1,952	1,996	2,151	1,870	1.2	-13.1	-1.0
ELECTRICAL	3,982	3,848	4,416	4,552	4,345	4,930	5,156	5,115	4.4	-.8	3.6
ENGINEERING SCIENCE	32	24	29	46	55	79	89	113	18.6	27.0	19.8
INDUSTRIAL	5,033	5,421	5,597	5,120	5,941	5,407	6,001	5,313	3.0	-11.5	.8
MECHANICAL	1,236	1,053	1,399	1,283	1,365	1,426	1,557	1,536	3.9	-1.3	3.2
METALLURGICAL/MATERIALS	227	218	283	264	260	277	323	285	6.1	-11.8	3.3
MINING	5	6	5	5	5	5	3	8	-8.2	166.7	6.9
NUCLEAR	191	157	133	88	66	63	67	56	-16.0	-16.4	-16.1
PETROLEUM	58	21	33	37	27	85	91	74	7.8	-18.7	3.5
ENGINEERING, N.E.C.	571	828	819	946	1,017	1,012	1,146	823	12.3	-28.2	5.4
PHYSICAL SCIENCES	1,263	1,298	1,224	1,220	1,139	1,201	1,221	1,104	-.6	-9.6	-1.9
ASTRONOMY	6	7	6	0	2	4	1	4	-25.8	300.0	-5.6
CHEMISTRY	783	803	857	880	799	854	881	786	2.0	-10.8	.1
PHYSICS	474	488	361	328	338	343	339	314	-5.4	-7.4	-5.7
PHYSICAL SCIENCES, N.E.C.	0	0	0	12	0	0	0	0	**	**	**
ENVIRONMENTAL SCIENCES	304	287	374	325	305	281	281	288	-1.3	2.5	-.8
ATMOSPHERIC SCIENCES	15	10	3	1	1	28	11	7	-5.0	-36.4	-10.3
GEOSCIENCES	256	238	219	197	250	219	225	214	-2.1	-4.9	-2.5
OCEANOGRAPHY	32	33	146	117	34	15	16	37	-10.9	131.3	2.1
ENVIRONMENTAL SCIENCES, N.E.C.	1	6	6	10	20	19	29	30	75.3	3.4	62.6
MATHEMATICAL/COMPUTER SCIENCES	2,507	2,411	2,729	3,130	3,698	4,413	5,477	5,973	13.9	9.1	13.2
COMPUTER SCIENCE	1,008	995	1,383	1,884	2,387	2,894	3,804	4,219	24.8	10.9	22.7
MATHEMATICS AND APPLIED MATHEMATICS	1,404	1,316	1,261	1,165	1,233	1,442	1,604	1,688	2.2	5.2	2.7
STATISTICS	95	100	85	81	78	77	69	66	-5.2	-4.3	-5.1
LIFE SCIENCES	3,466	4,162	6,281	6,423	6,339	6,679	7,670	7,605	14.2	-.8	11.9
AGRICULTURAL SCIENCES	11	9	16	15	16	10	13	19	2.8	46.2	8.1
BIOLOGICAL SCIENCES	1,968	2,168	2,424	2,272	2,179	2,042	2,167	2,122	1.6	-2.1	1.1
ANATOMY	22	20	38	23	20	21	32	59	6.4	84.4	15.1
BIOCHEMISTRY	47	48	45	87	78	96	137	104	19.5	-24.1	12.0
BIOLOGY	1,305	1,341	1,441	1,268	1,204	1,112	1,123	1,068	-2.5	-4.9	-2.8
BIOMETRY/EPIDEMIOLOGY	42	60	73	61	51	78	93	102	14.2	9.7	13.5
BIOPHYSICS	3	2	2	0	0	0	0	0	-100.0	**	-100.0
BOTANY	35	41	25	32	22	20	27	17	-4.2	-37.0	-9.8
CELL BIOLOGY	11	15	9	5	3	6	5	15	-12.3	200.0	4.5
ECOLOGY	0	1	0	0	0	0	0	0	**	**	**
ENTOMOLOGY/PARASITOLOGY	0	0	3	4	4	3	2	1	**	-50.0	**
GENETICS	10	37	41	50	45	48	33	32	22.0	-3.0	18.1
MICROBIOLOGY	109	106	135	87	74	65	106	107	-.5	.9	-.3
NUTRITION	61	76	130	90	119	129	198	214	21.7	8.1	19.6
PATHOLOGY	123	234	276	272	267	235	214	212	9.7	-.9	9.1
PHARMACOLOGY	42	41	47	62	83	49	43	37	.4	-14.0	-1.8
PHYSIOLOGY	41	41	30	113	100	77	55	58	5.0	5.5	5.1
ZOOLOGY	16	6	19	27	21	18	30	23	11.0	-23.3	5.3
BIOSCIENCES, N.E.C.	101	99	110	91	88	85	69	73	-6.2	5.8	-4.5
HEALTH SCIENCES	1,487	1,985	3,861	4,136	4,144	4,627	5,490	5,464	24.3	-.5	20.4
ANESTHESIOLOGY	0	0	2	3	2	4	4	4	**	.0	**
CANCER/ONCOLOGY	0	0	0	0	0	0	0	1	**	**	**
CARDIOLOGY	1	0	2	0	0	0	0	0	-100.0	**	-100.0
DENTISTRY	85	78	121	109	51	54	95	40	1.9	-57.9	-10.2
ENDOCRINOLOGY	0	2	5	0	0	0	0	0	**	**	**
GASTROENTEROLOGY	4	0	0	0	0	0	1	0	-20.6	-100.0	-100.0
HEMATOLOGY	0	1	11	8	6	7	0	1	**	**	**
NEUROLOGY	0	7	7	1	0	5	0	0	**	**	**
NURSING	180	469	1,558	1,589	1,573	1,618	2,209	2,456	51.9	11.2	45.3
OBSTETRICS/GYNECOLOGY	0	2	2	2	2	1	1	1	**	.0	**
OPHTHALMOLOGY	0	1	1	0	0	0	0	0	**	**	**
OTORHINOLARYNGOLOGY	0	0	1	0	0	0	0	0	**	**	**
PEDIATRICS	6	3	3	5	12	8	3	8	-10.9	166.7	4.2
PHARMACEUTICAL SCIENCES	536	587	691	723	644	595	662	566	3.6	-14.5	.8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	232	447	599	748	911	1,214	1,342	1,325	34.0	-1.3	28.3
PSYCHIATRY	26	7	13	13	13	0	34	8	4.6	-76.5	-15.5
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	3	2	1	1	5	2	6	7	12.2	16.7	12.9
SPEECH PATHOLOGY/AUDIOLOGY	345	248	324	401	310	340	306	260	-2.0	-15.0	-4.0
SURGERY	1	4	11	8	2	0	6	0	34.8	-100.0	-100.0
VETERINARY SCIENCES	1	0	0	0	0	0	0	0	-100.0	**	-100.0
CLINICAL MEDICINE, N.E.C.	0	3	1	20	26	13	30	24	**	-20.0	**
HEALTH RELATED, N.E.C.	67	124	488	505	587	766	791	763	50.9	-3.5	41.6
PSYCHOLOGY	3,580	3,622	3,586	3,933	3,872	4,120	4,000	3,956	1.9	-1.1	1.4
SOCIAL SCIENCES	8,209	8,523	8,372	8,650	9,701	10,776	10,259	10,282	3.8	.2	3.3
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	2	4	**	100.0	**
ANTHROPOLOGY	483	386	395	370	415	424	453	434	-1.1	-4.2	-1.5
ECONOMICS (EXCEPT AGRICULTURAL)	1,172	1,369	1,343	1,118	1,324	1,388	1,582	1,691	5.1	6.9	5.4
GEOGRAPHY	63	34	38	39	58	43	31	34	-11.1	9.7	-8.4
HISTORY AND PHILOSOPHY OF SCIENCE	21	23	15	19	14	13	12	7	-8.9	-41.7	-14.5
LINGUISTICS	170	179	209	145	368	330	324	184	11.3	-43.2	1.1
POLITICAL SCIENCE	3,654	4,085	3,744	4,403	5,178	5,861	5,299	5,109	6.4	-3.6	4.9
SOCIOLOGY	809	847	838	704	702	735	710	733	-2.2	3.2	-1.4
SOCIOLOGY/ANTHROPOLOGY	146	127	150	159	205	211	229	173	7.8	-24.5	2.5
SOCIAL SCIENCES, N.E.C.	1,691	1,473	1,640	1,693	1,437	1,771	1,617	1,913	-.7	18.3	1.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-82

DIVISION AND STATE	NUMBER								AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1978	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	83,433	84,070	89,116	93,227	97,171	103,195	105,809	109,738	4.0	3.7	4.0
NEW ENGLAND	5,222	5,100	5,509	5,899	6,034	6,537	6,806	7,270	4.5	6.8	4.8
CONNECTICUT	541	575	374	435	506	446	486	491	-1.8	1.0	-1.4
MAINE	82	123	91	109	120	123	82	55	.0	-32.9	-5.5
MASSACHUSETTS	3,937	3,807	4,424	4,713	4,766	5,251	5,513	6,025	5.8	9.3	6.3
NEW HAMPSHIRE	65	75	91	136	81	105	120	110	10.8	-8.3	7.8
RHODE ISLAND	498	420	394	400	416	467	438	369	-2.1	-15.8	-4.2
VERMONT	99	100	135	106	145	145	167	220	9.1	31.7	12.1
MIDDLE ATLANTIC	22,940	21,738	23,277	23,476	24,769	26,414	28,550	28,365	3.7	-.6	3.1
NEW JERSEY	4,333	3,964	4,108	5,305	5,225	5,277	5,241	5,114	3.2	-2.4	2.4
NEW YORK	13,828	12,557	14,033	13,146	14,301	15,164	16,781	16,776	3.3	*	2.8
PENNSYLVANIA	4,779	5,217	5,136	5,025	5,243	5,973	6,528	6,475	5.3	-.8	4.4
EAST NORTH CENTRAL	12,353	12,458	13,347	14,379	15,090	15,810	16,009	16,845	4.4	5.2	4.5
ILLINOIS	2,517	2,674	3,535	3,853	4,187	4,565	4,603	4,565	10.6	-.8	8.9
INDIANA	1,312	1,533	1,590	1,436	1,446	1,608	1,943	2,123	6.8	9.3	7.1
MICHIGAN	2,353	2,313	2,347	2,606	3,180	3,074	3,034	3,448	4.3	13.6	5.6
OHIO	4,377	4,132	4,258	4,809	4,613	4,698	4,802	5,045	1.6	5.1	2.0
WISCONSIN	1,794	1,806	1,617	1,675	1,664	1,885	1,627	1,664	-1.6	2.3	-1.1
WEST NORTH CENTRAL	4,845	5,005	5,673	6,173	5,872	5,884	5,729	6,159	2.8	7.5	3.5
IOWA	711	842	905	1,069	1,021	1,009	907	943	4.1	4.0	4.1
KANSAS	886	877	1,082	1,346	1,284	1,029	926	929	.7	.3	.7
MINNESOTA	808	735	760	764	734	776	849	908	.8	6.9	1.7
MISSOURI	1,741	1,815	1,830	1,849	1,800	2,004	1,937	2,198	1.8	13.5	3.4
NEBRASKA	455	539	783	747	680	650	795	772	9.7	-2.9	7.8
NORTH DAKOTA	111	108	229	225	187	220	156	176	5.8	12.8	6.8
SOUTH DAKOTA	133	89	84	173	166	196	159	233	3.0	46.5	8.3
SOUTH ATLANTIC	12,135	13,944	15,074	16,424	17,036	18,641	19,144	19,664	7.9	2.7	7.1
DELAWARE	318	330	254	249	321	351	409	439	4.3	7.3	4.7
DISTRICT OF COLUMBIA	3,522	4,371	5,296	5,215	5,098	5,273	5,915	5,221	9.0	-11.7	5.8
FLORIDA	2,052	2,243	2,255	2,976	3,444	4,170	4,286	4,687	13.1	9.4	12.5
GEORGIA	1,202	1,216	1,060	1,136	1,280	1,481	1,308	1,321	1.4	1.0	1.4
MARYLAND	1,654	2,102	2,229	2,210	2,107	1,721	1,868	1,971	2.0	5.5	2.5
NORTH CAROLINA	931	920	937	1,136	1,193	1,168	1,178	1,283	4.0	8.9	4.7
SOUTH CAROLINA	706	791	896	1,010	981	810	888	1,030	3.9	16.0	5.5
VIRGINIA	1,374	1,497	1,589	1,663	1,765	2,288	2,147	2,293	7.7	6.8	7.6
WEST VIRGINIA	376	474	558	829	847	1,379	1,145	1,419	20.4	23.9	20.9
EAST SOUTH CENTRAL	2,824	3,356	3,539	3,774	3,762	4,019	3,737	4,061	4.8	8.7	5.3
ALABAMA	693	945	1,102	1,069	1,052	946	988	1,033	6.1	4.6	5.9
KENTUCKY	554	661	701	708	787	753	824	984	6.8	19.4	8.6
MISSISSIPPI	354	390	376	424	369	437	423	450	3.0	6.4	3.5
TENNESSEE	1,223	1,360	1,360	1,573	1,554	1,883	1,502	1,594	3.5	6.1	3.9
WEST SOUTH CENTRAL	7,249	7,283	8,226	8,570	8,232	8,810	8,837	9,460	3.4	7.0	3.9
ARKANSAS	162	195	263	312	291	300	300	334	10.8	11.3	10.9
LOUISIANA	730	820	874	991	1,036	1,088	1,093	1,090	7.0	-.3	5.9
OKLAHOMA	991	907	1,049	1,088	985	934	925	931	-1.1	.6	-.9
TEXAS	5,366	5,361	6,040	6,179	5,920	6,488	6,519	7,105	3.3	9.0	4.1
MOUNTAIN	4,607	4,360	4,620	4,874	5,334	5,608	5,530	6,233	3.1	12.7	4.4
ARIZONA	1,419	1,252	1,319	1,335	1,575	1,484	1,774	2,335	3.8	31.6	7.4
COLORADO	1,514	1,335	1,405	1,410	1,773	1,874	1,648	1,711	1.4	3.8	1.8
IDAHO	142	235	400	396	298	328	292	282	12.8	-3.4	10.3
MONTANA	47	35	46	85	69	74	59	75	3.9	27.1	6.9
NEVADA	98	138	123	109	116	85	114	58	2.6	-49.1	-7.2
NEW MEXICO	704	667	546	620	564	637	692	723	-.3	4.5	.4
UTAH	593	601	701	841	845	892	886	948	6.9	7.0	6.9
WYOMING	90	97	80	78	94	234	65	101	-5.3	55.4	1.7
PACIFIC	10,872	10,428	9,314	9,166	10,456	10,842	10,873	11,032	*	1.5	.2
ALASKA	42	38	38	28	36	28	92	84	14.0	-8.7	10.4
CALIFORNIA	9,374	8,732	7,700	7,260	8,469	8,736	8,829	8,852	-1.0	.3	-.8
HAWAII	153	143	170	168	161	281	274	295	10.2	7.7	9.8
OREGON	576	597	454	556	548	450	522	576	-1.6	10.3	.0
WASHINGTON	727	918	952	1,154	1,242	1,347	1,156	1,225	8.0	6.0	7.7
OUTLYING AREAS	386	398	537	492	586	630	594	649	7.4	9.3	7.7

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. — SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	16,832	18,452	19,487	18,086	18,411	19,646	19,733	2.6	0.4	2.3
ENGINEERING	1,167	1,218	1,245	1,067	979	1,041	979	-1.9	-6.0	-2.5
AEROSPACE	43	36	46	32	20	14	25	-17.1	78.6	-7.5
AGRICULTURAL	26	32	20	25	9	9	6	-16.2	-33.3	-18.9
BIOMEDICAL	41	55	73	32	28	34	30	-3.1	-11.8	-4.4
CHEMICAL	208	221	210	192	183	171	175	-3.2	2.3	-3.4
CIVIL	97	105	156	128	125	108	108	1.8	.0	1.5
ELECTRICAL	170	176	171	142	121	191	176	2.0	-7.9	.5
ENGINEERING SCIENCE	114	99	91	75	79	87	77	-4.4	-11.5	-5.5
INDUSTRIAL	41	15	20	7	16	13	9	-17.4	-30.8	-19.5
MECHANICAL	120	181	161	143	137	131	131	1.5	.0	1.3
METALLURGICAL/MATERIALS	210	213	209	209	172	193	166	-1.4	-14.0	-3.3
MINING	13	16	14	5	3	16	10	3.5	-37.5	-3.7
NUCLEAR	41	32	21	20	22	26	18	-7.3	-30.8	-11.1
PETROLEUM	1	2	5	6	6	2	4	12.2	100.0	21.9
ENGINEERING, N.E.C.	42	35	48	51	58	46	44	1.5	-4.3	.7
PHYSICAL SCIENCES	3,932	4,033	4,196	4,020	4,261	4,461	4,280	2.1	-4.1	1.2
ASTRONOMY	115	140	167	129	141	132	148	2.3	12.1	3.7
CHEMISTRY	2,522	2,610	2,658	2,604	2,710	2,870	2,806	2.2	-2.2	1.5
PHYSICS	1,288	1,281	1,369	1,285	1,395	1,444	1,324	1.9	-8.3	.4
PHYSICAL SCIENCES, N.E.C.	7	2	2	2	15	15	2	13.5	-86.7	-16.4
ENVIRONMENTAL SCIENCES	294	389	376	318	307	338	334	2.4	-1.2	1.8
ATMOSPHERIC SCIENCES	37	48	49	34	43	46	32	3.7	-30.4	-2.1
GEOSCIENCES	181	272	242	219	194	213	216	2.8	1.4	2.6
OCEANOGRAPHY	57	56	44	54	57	67	78	2.7	16.4	4.6
ENVIRONMENTAL SCIENCES, N.E.C.	19	13	21	11	13	12	8	-7.4	-33.3	-11.6
MATHEMATICAL/COMPUTER SCIENCES	167	190	145	200	205	147	240	-2.1	63.3	5.3
COMPUTER SCIENCE	55	79	75	75	62	48	57	-2.2	18.8	.5
MATHEMATICS AND APPLIED MATHEMATICS	85	88	54	102	122	88	169	.6	92.0	10.3
STATISTICS	27	23	16	23	21	11	14	-13.9	27.3	-9.0
LIFE SCIENCES	10,615	11,880	12,768	11,627	11,747	12,856	13,090	3.2	1.8	3.0
AGRICULTURAL SCIENCES	260	332	297	215	239	284	283	1.5	-.4	1.2
BIOLOGICAL SCIENCES	5,801	6,248	6,537	6,805	7,058	7,662	7,775	4.7	1.5	4.3
ANATOMY	197	177	218	256	250	261	280	4.8	7.3	5.2
BIOCHEMISTRY	1,351	1,419	1,398	1,511	1,548	1,673	1,645	3.6	-1.7	2.9
BIOLOGY	790	852	868	978	1,002	884	952	1.9	7.7	2.7
BIOMETRY/EPIDEMIOLOGY	23	37	65	68	72	64	53	18.6	-17.2	12.7
BIOPHYSICS	206	220	219	103	154	156	131	-4.5	-16.0	-6.3
BOTANY	174	179	184	163	220	240	298	5.5	24.2	8.0
CELL BIOLOGY	235	276	278	328	387	506	487	13.6	-3.8	11.0
ECOLOGY	31	8	18	18	22	44	28	6.0	-36.4	-1.4
ENTOMOLOGY/PARASITOLOGY	139	123	119	104	119	133	119	-.7	-10.5	-2.2
GENETICS	199	208	209	231	251	290	311	6.5	7.2	6.6
MICROBIOLOGY	703	801	914	869	879	984	1,043	5.8	6.0	5.8
NUTRITION	160	170	172	170	129	171	138	1.1	-19.3	-2.1
PATHOLOGY	349	370	428	429	477	468	544	5.0	16.2	6.5
PHARMACOLOGY	481	557	617	633	624	755	796	7.8	5.4	7.5
PHYSIOLOGY	508	577	609	678	668	758	674	6.9	-11.1	4.1
ZOOLOGY	211	230	182	218	209	221	223	.8	.9	.8
BIOSCIENCES, N.E.C.	44	44	39	48	47	54	53	3.5	-1.9	2.7
HEALTH SCIENCES	4,554	5,300	5,934	4,607	4,450	4,910	5,032	1.3	2.5	1.4
ANESTHESIOLOGY	95	64	75	62	54	66	72	-5.9	9.1	-3.9
CANCER/ONCOLOGY	86	120	130	110	133	119	98	5.6	-17.6	1.9
CARDIOLOGY	484	497	502	298	334	333	384	-6.0	15.3	-3.3
DENTISTRY	28	73	330	119	86	143	251	31.2	75.5	36.8
ENDOCRINOLOGY	138	208	202	105	120	150	142	1.4	-5.3	.4
GASTROENTEROLOGY	184	168	198	103	123	113	124	-7.8	9.7	-5.5
HEMATOLOGY	197	271	248	151	148	153	153	-4.1	.0	-3.5
NEUROLOGY	212	242	313	327	346	352	323	8.8	-8.2	6.2
NURSING	16	1	0	7	9	8	0	-10.9	-100.0	-100.0
OBSTETRICS/GYNECOLOGY	167	182	167	143	122	113	105	-6.3	-7.1	-6.4
OPHTHALMOLOGY	104	163	186	138	122	144	151	5.6	4.9	5.5
OTORHINOLARYNGOLOGY	42	41	30	35	46	41	35	-.4	-14.6	-2.6
PEDIATRICS	472	532	514	511	433	587	551	3.7	-6.1	2.2
PHARMACEUTICAL SCIENCES	201	202	237	235	233	243	238	3.2	-2.1	2.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	88	150	113	112	161	135	152	7.4	12.6	8.1
PSYCHIATRY	279	281	329	292	296	292	292	.8	.0	.7
PULMONARY DISEASE	152	207	228	143	127	122	143	-3.6	17.2	-.9
RADIOLOGY	174	182	190	138	156	155	185	-1.9	19.4	.9
SPEECH PATHOLOGY/AUDIOLOGY	19	19	31	35	16	16	7	-2.8	-56.3	-13.3
SURGERY	313	406	450	281	308	307	340	-.3	10.7	1.2
VETERINARY SCIENCES	42	63	83	22	52	31	49	-4.9	58.1	2.2
CLINICAL MEDICINE, N.E.C.	1,028	1,191	1,315	1,145	924	1,177	1,132	2.3	-3.8	1.4
HEALTH RELATED, N.E.C.	33	37	63	95	101	110	105	22.2	-4.5	18.0
PSYCHOLOGY	391	398	399	454	474	471	523	3.2	11.0	4.2
SOCIAL SCIENCES	266	344	358	400	438	332	287	3.8	-13.6	1.1
AGRICULTURAL ECONOMICS	28	30	28	6	8	6	10	-22.6	66.7	-13.7
ANTHROPOLOGY	33	45	53	41	40	30	34	-1.6	13.3	.4
ECONOMICS (EXCEPT AGRICULTURAL)	44	57	65	99	146	30	13	-6.2	-56.7	-16.0
GEOGRAPHY	7	12	9	5	15	23	5	21.9	-78.3	-4.7
HISTORY AND PHILOSOPHY OF SCIENCE	6	12	22	11	15	21	14	23.2	-33.3	12.9
LINGUISTICS	19	32	29	30	54	47	47	16.3	.0	13.8
POLITICAL SCIENCE	18	28	27	29	30	46	44	16.9	-4.3	13.6
SOCIOLOGY	89	114	98	115	99	90	89	.2	-1.1	.0
SOCIOLOGY/ANTHROPOLOGY	1	0	1	4	3	0	2	-100.0	**	10.4
SOCIAL SCIENCES, N.E.C.	21	14	26	60	28	39	29	10.9	-25.6	4.7

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. — SCIENCE/ENGINEERING POSTDOCTORATES
IN PUBLIC DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	9,267	9,990	10,315	9,876	10,291	10,822	11,016	2.6	1.8	2.5
ENGINEERING	585	582	629	531	523	528	528	-1.7	.0	-1.5
AEROSPACE	24	14	22	11	12	8	10	-16.7	25.0	-11.8
AGRICULTURAL	19	26	19	25	8	6	2	-17.5	-66.7	-27.5
BIOMEDICAL	18	15	14	7	12	16	19	-1.9	18.8	.8
CHEMICAL	133	135	142	129	130	107	117	-3.6	9.3	-1.8
CIVIL	54	47	81	52	59	34	70	-7.4	105.9	3.8
ELECTRICAL	95	84	92	57	51	116	82	3.4	-29.3	-2.1
ENGINEERING SCIENCE	11	11	16	7	5	9	10	-3.3	11.1	-1.4
INDUSTRIAL	24	9	11	6	15	12	9	-10.9	-25.0	-13.1
MECHANICAL	57	90	79	73	71	67	75	2.7	11.9	4.0
METALLURGICAL/MATERIALS	94	108	105	102	89	88	84	-1.1	-4.5	-1.6
MINING	5	9	7	4	2	7	1	5.8	-85.7	-20.5
NUCLEAR	23	17	12	16	20	21	17	-1.5	-19.0	-4.2
PETROLEUM	0	0	4	5	4	0	1	**	**	**
ENGINEERING, N.E.C.	28	17	25	37	45	37	31	4.8	-16.2	1.5
PHYSICAL SCIENCES	2,358	2,387	2,452	2,422	2,650	2,769	2,730	2.7	-1.4	2.1
ASTRONOMY	57	67	86	68	85	67	81	2.7	20.9	5.1
CHEMISTRY	1,554	1,581	1,613	1,634	1,719	1,802	1,799	2.5	-.2	2.1
PHYSICS	740	737	751	718	846	900	848	3.3	-5.8	2.0
PHYSICAL SCIENCES, N.E.C.	7	2	2	2	0	0	2	-100.0	**	-16.4
ENVIRONMENTAL SCIENCES	186	221	247	199	189	220	230	2.8	4.5	3.1
ATMOSPHERIC SCIENCES	35	46	49	26	36	41	29	2.7	-29.3	-2.7
GEOSCIENCES	97	124	128	119	97	120	133	3.6	10.8	4.6
OCEANOGRAPHY	44	45	58	46	47	49	64	1.8	30.6	5.5
ENVIRONMENTAL SCIENCES, N.E.C.	10	6	12	8	9	10	4	.0	-60.0	-12.3
MATHEMATICAL/COMPUTER SCIENCES	95	80	58	95	108	60	92	-7.4	53.3	-.5
COMPUTER SCIENCE	16	31	27	20	26	15	22	-1.1	46.7	4.7
MATHEMATICS AND APPLIED MATHEMATICS	55	31	17	56	66	40	60	-5.2	50.0	1.3
STATISTICS	24	18	14	19	16	5	10	-23.0	100.0	-11.8
LIFE SCIENCES	5,722	6,378	6,679	6,195	6,416	6,829	7,024	3.0	2.9	3.0
AGRICULTURAL SCIENCES	345	313	288	204	226	272	268	1.8	-1.5	1.3
BIOLOGICAL SCIENCES	3,189	3,371	3,553	3,902	4,035	4,387	4,440	5.5	1.2	4.8
ANATOMY	120	92	118	136	136	143	149	3.0	4.2	3.1
BIOCHEMISTRY	757	785	765	884	876	1,001	970	4.8	-3.1	3.6
BIOLOGY	288	323	361	400	420	411	464	6.1	12.9	7.1
BIOMETRY/EPIDEMIOLOGY	10	17	31	26	27	31	25	20.8	-19.4	14.0
BIOPHYSICS	78	81	74	56	60	45	34	-8.8	-24.4	-11.2
BOTANY	157	161	165	149	199	211	269	5.1	27.5	8.0
CELL BIOLOGY	97	119	119	131	167	199	174	12.7	-12.6	8.7
ECOLOGY	7	6	16	18	22	39	27	33.1	-30.8	21.3
ENTOMOLOGY/PARASITOLOGY	134	113	104	93	108	121	106	-1.9	-12.4	-3.5
GENETICS	130	112	115	132	143	162	148	3.7	-8.6	1.9
MICROBIOLOGY	403	463	543	561	593	660	671	8.6	1.7	7.6
NUTRITION	60	54	67	83	66	74	63	3.6	-14.9	.7
PATHOLOGY	145	177	183	218	244	209	273	6.3	30.6	9.5
PHARMACOLOGY	279	285	334	368	352	397	451	6.1	13.6	7.1
PHYSIOLOGY	294	334	364	416	406	456	393	7.5	-13.4	4.2
ZOOLOGY	184	205	155	184	170	190	185	.5	-2.6	.1
BIOSCIENCES, N.E.C.	44	44	39	47	46	40	38	-1.6	-5.0	-2.1
HEALTH SCIENCES	2,288	2,694	2,838	2,089	2,155	2,170	2,316	-.9	6.7	.2
ANESTHESIOLOGY	54	29	38	30	24	28	23	-10.4	-17.9	-11.5
CANCER/ONCOLOGY	55	88	90	85	108	101	78	10.7	-22.8	5.1
CARDIOLOGY	262	261	267	160	196	190	221	-5.2	16.3	-2.4
DENTISTRY	20	50	130	82	82	37	156	10.8	321.6	34.1
ENDOCRINOLOGY	71	115	98	48	68	72	88	.2	22.2	3.1
GASTROENTEROLOGY	103	98	104	50	58	51	62	-11.1	21.6	-7.0
HEMATOLOGY	106	117	107	60	78	76	74	-5.4	-2.6	-5.0
NEUROLOGY	63	77	119	137	125	132	128	8.0	-3.0	6.4
NURSING	0	0	0	7	8	7	0	**	-100.0	**
OBSTETRICS/GYNECOLOGY	86	97	83	70	58	48	46	-9.3	-4.2	-8.6
OPHTHALMOLOGY	41	53	49	51	42	40	50	-.4	25.0	2.9
OTORHINOLARYNGOLOGY	28	19	19	23	30	19	19	-6.3	.0	-5.4
PEDIATRICS	234	245	228	171	154	181	175	-4.2	-3.3	-4.1
PHARMACEUTICAL SCIENCES	194	192	220	227	220	230	223	2.9	-3.0	2.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	67	123	77	47	95	63	85	-1.0	34.9	3.5
PSYCHIATRY	135	143	122	79	99	107	125	-3.8	16.8	-1.1
PULMONARY DISEASE	85	112	119	58	72	72	83	-2.7	15.3	-.3
RADIOLOGY	46	78	54	33	45	43	61	-1.1	41.9	4.1
SPEECH PATHOLOGY/AUDIOLOGY	16	18	30	22	4	5	5	-17.6	.0	-15.3
SURGERY	90	169	210	116	119	141	133	7.8	-5.7	5.7
VETERINARY SCIENCES	15	38	52	15	34	20	35	4.9	75.0	12.9
CLINICAL MEDICINE, N.E.C.	489	552	577	452	385	442	394	-1.7	-10.9	-3.0
HEALTH RELATED, N.E.C.	8	20	45	66	51	65	52	41.8	-20.0	30.7
PSYCHOLOGY	175	154	149	203	234	259	268	6.8	3.5	6.3
SOCIAL SCIENCES	146	188	201	231	171	157	144	1.2	-8.3	-.2
AGRICULTURAL ECONOMICS	27	28	28	6	8	5	9	-24.5	80.0	-14.5
ANTHROPOLOGY	23	28	40	28	27	20	28	-2.3	40.0	2.8
ECONOMICS (EXCEPT AGRICULTURAL)	23	22	18	40	16	12	6	-10.3	-50.0	-17.5
GEOGRAPHY	6	8	8	4	13	22	4	24.2	-81.8	-5.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	1	4	2	1	1	1	**	.0	**
LINGUISTICS	8	20	23	15	25	19	16	15.5	-15.8	10.4
POLITICAL SCIENCE	10	16	14	12	12	7	22	-5.8	214.3	11.9
SOCIOLOGY	39	53	43	71	50	55	49	5.9	-10.9	3.3
SOCIOLOGY/ANTHROPOLOGY	0	0	1	2	3	0	1	**	**	**
SOCIAL SCIENCES, N.E.C.	10	12	22	51	16	16	8	8.1	-50.0	-3.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. -- SCIENCE/ENGINEERING POSTDOCTORATES
IN PRIVATE DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	7,565	8,462	9,072	8,210	8,120	8,824	8,717	2.6	-1.2	2.0
ENGINEERING	582	636	616	536	456	513	451	-2.1	-12.1	-3.6
AEROSPACE	19	22	24	21	8	6	15	-17.5	150.0	-3.3
AGRICULTURAL	7	6	1	0	1	3	4	-13.2	33.3	-7.7
BIOMEDICAL	23	40	59	25	16	18	11	-4.0	-38.9	-10.0
CHEMICAL	75	86	68	63	53	64	58	-2.6	-9.4	-3.6
CIVIL	43	58	75	76	66	74	38	9.5	-48.6	-1.8
ELECTRICAL	75	92	79	85	70	75	94	.0	25.3	3.3
ENGINEERING SCIENCE	103	88	75	68	74	78	67	-4.5	-14.1	-6.0
INDUSTRIAL	17	6	9	1	1	1	0	-37.6	-100.0	-100.0
MECHANICAL	63	91	82	70	66	64	56	.3	-12.5	-1.7
METALLURGICAL/MATERIALS	116	105	104	107	83	105	82	-1.6	-21.9	-4.8
MINING	8	7	7	1	1	9	9	2.0	.0	1.7
NUCLEAR	18	15	9	4	2	5	1	-19.2	-80.0	-33.8
PETROLEUM	1	2	1	1	2	2	3	12.2	50.0	17.0
ENGINEERING, N.E.C.	14	18	23	14	13	9	13	-7.1	44.4	-1.1
PHYSICAL SCIENCES	1,574	1,646	1,744	1,598	1,611	1,692	1,550	1.2	-8.4	-.2
ASTRONOMY	58	73	81	61	56	65	67	1.9	3.1	2.1
CHEMISTRY	968	1,029	1,045	970	991	1,068	1,007	1.7	-5.7	.6
PHYSICS	548	544	618	567	549	544	476	-.1	-12.5	-2.0
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	15	15	0	**	-100.0	**
ENVIRONMENTAL SCIENCES	108	168	129	119	118	118	104	1.5	-11.9	-.5
ATMOSPHERIC SCIENCES	2	2	0	8	7	5	3	16.5	-40.0	6.0
GEOSCIENCES	84	148	114	100	97	93	83	1.7	-10.8	-.2
OCEANOGRAPHY	13	11	6	8	10	18	14	5.6	-22.2	1.1
ENVIRONMENTAL SCIENCES, N.E.C.	9	7	9	3	4	2	4	-22.2	100.0	-10.9
MATHEMATICAL/COMPUTER SCIENCES	72	110	87	105	97	87	148	3.2	70.1	10.8
COMPUTER SCIENCE	39	48	48	55	36	33	35	-2.7	6.1	-1.5
MATHEMATICS AND APPLIED MATHEMATICS	30	57	37	46	56	48	109	8.1	127.1	20.2
STATISTICS	3	5	2	4	5	6	4	12.2	-33.3	4.2
LIFE SCIENCES	4,893	5,502	6,089	5,432	5,331	6,027	6,066	3.5	.6	3.1
AGRICULTURAL SCIENCES	15	19	9	11	13	12	15	-3.7	25.0	.0
BIOLOGICAL SCIENCES	2,612	2,877	2,984	2,903	3,023	3,275	3,335	3.8	1.8	3.6
ANATOMY	77	85	100	120	114	118	131	7.4	11.0	7.9
BIOCHEMISTRY	594	634	633	627	672	672	675	2.1	.4	1.8
BIOLOGY	502	529	507	578	582	473	488	-1.0	3.2	-.4
BIOMETRY/EPIDEMIOLOGY	13	20	34	42	45	33	28	16.8	-15.2	11.6
BIOPHYSICS	128	139	145	47	94	111	97	-2.3	-12.6	-3.9
BOTANY	17	18	19	14	21	29	29	9.3	.0	7.9
CELL BIOLOGY	138	157	159	197	220	307	313	14.3	2.0	12.4
ECOLOGY	24	2	2	0	0	5	1	-23.0	-80.0	-36.5
ENTOMOLOGY/PARASITOLOGY	3	10	15	11	11	12	13	26.0	8.3	23.3
GENETICS	69	96	94	99	108	128	163	10.8	27.3	13.1
MICROBIOLOGY	300	338	371	308	286	324	372	1.3	14.8	3.1
NUTRITION	100	116	105	87	63	97	75	-.5	-22.7	-4.0
PATHOLOGY	204	193	245	211	233	259	271	4.1	4.6	4.1
PHARMACOLOGY	202	272	283	265	272	358	345	10.0	-3.6	7.9
PHYSIOLOGY	214	243	245	262	262	304	281	6.0	-7.6	4.0
ZOOLOGY	27	25	27	34	39	31	38	2.3	22.6	5.0
BIOSCIENCES, N.E.C.	0	0	0	1	1	14	15	**	7.1	**
HEALTH SCIENCES	2,266	2,606	3,096	2,518	2,295	2,740	2,716	3.2	-.9	2.6
ANESTHESIOLOGY	41	35	37	32	30	38	49	-1.3	28.9	2.6
CANCER/ONCOLOGY	31	32	40	25	25	18	20	-8.7	11.1	-6.1
CARDIOLOGY	222	236	235	138	138	143	163	-7.1	14.0	-4.3
DENTISTRY	8	23	200	37	4	106	95	53.8	-10.4	42.4
ENDOCRINOLOGY	67	93	104	57	52	78	54	2.6	-30.8	-3.0
GASTROENTEROLOGY	81	70	94	53	65	62	62	-4.4	.0	-3.7
HEMATOLOGY	91	154	141	91	70	77	79	-2.7	2.6	-2.0
NEUROLOGY	129	165	194	190	221	220	195	9.3	-11.4	6.1
NURSING	16	1	0	0	1	1	0	-37.0	-100.0	-100.0
OBSTETRICS/GYNECOLOGY	81	85	84	73	64	65	59	-3.6	-9.2	-4.4
OPHTHALMOLOGY	63	110	137	87	80	104	101	8.7	-2.9	7.0
OTORHINOLARYNGOLOGY	14	22	11	12	16	22	16	7.8	-27.3	1.9
PEDIATRICS	238	287	286	340	279	406	376	9.3	-7.4	6.8
PHARMACEUTICAL SCIENCES	7	10	17	8	13	13	15	10.9	15.4	11.5
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	21	27	36	65	66	72	67	22.8	-6.9	18.0
PSYCHIATRY	144	138	207	213	197	185	167	4.3	-9.7	2.1
PULMONARY DISEASE	67	95	109	85	55	50	60	-4.8	20.0	-1.6
RADIOLOGY	128	104	136	105	111	112	124	-2.2	10.7	-.5
SPEECH PATHOLOGY/AUDIOLOGY	3	1	1	13	12	11	2	24.2	-81.8	-5.6
SURGERY	223	237	240	165	189	166	207	-4.8	24.7	-1.1
VETERINARY SCIENCES	27	25	31	7	18	11	14	-13.9	27.3	-9.0
CLINICAL MEDICINE, N.E.C.	539	639	738	693	539	735	738	5.3	.4	4.6
HEALTH RELATED, N.E.C.	25	17	18	29	50	45	53	10.3	17.8	11.3
PSYCHOLOGY	216	244	250	251	240	212	255	-.3	20.3	2.4
SOCIAL SCIENCES	120	156	157	169	267	175	143	6.5	-18.3	2.5
AGRICULTURAL ECONOMICS	1	2	0	0	0	1	1	.0	.0	.0
ANTHROPOLOGY	10	17	13	13	13	10	6	.0	-40.0	-7.0
ECONOMICS (EXCEPT AGRICULTURAL)	21	35	47	59	130	18	7	-2.5	-61.1	-14.5
GEOGRAPHY	1	4	1	1	2	1	1	.0	.0	.0
HISTORY AND PHILOSOPHY OF SCIENCE	6	11	18	9	14	20	13	22.2	-35.0	11.7
LINGUISTICS	11	12	6	15	29	28	31	16.8	10.7	16.0
POLITICAL SCIENCE	8	12	13	17	18	39	22	30.2	-43.6	15.5
SOCIOLOGY	50	61	55	44	49	35	40	-5.8	14.3	-3.1
SOCIOLOGY/ANTHROPOLOGY	1	0	0	2	0	0	1	-100.0	**	.0
SOCIAL SCIENCES, N.E.C.	11	2	4	9	12	23	21	13.1	-8.7	9.7

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. -- SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	11,914	13,055	13,328	13,458	13,651	14,592	14,041	3.4	-3.8	2.4
ENGINEERING	813	875	932	769	689	745	671	-1.4	-9.9	-2.7
AEROSPACE	24	31	39	27	19	11	19	-12.2	72.7	-3.3
AGRICULTURAL	17	15	9	11	4	3	2	-25.1	-33.3	-26.3
BIOMEDICAL	29	38	47	30	24	29	25	.0	-13.8	-2.1
CHEMICAL	117	151	159	128	120	107	100	-1.5	-6.5	-2.2
CIVIL	54	78	102	83	91	80	66	6.8	-17.5	2.9
ELECTRICAL	128	131	140	100	79	150	118	2.7	-21.3	-1.2
ENGINEERING SCIENCE	106	87	74	66	61	59	66	-9.3	11.9	-6.5
INDUSTRIAL	24	9	8	4	12	10	3	-13.6	-70.0	-25.7
MECHANICAL	89	120	120	112	86	85	95	-.8	11.8	.9
METALLURGICAL/MATERIALS	159	159	171	149	129	149	121	-1.1	-18.8	-3.8
MINING	11	15	13	5	3	15	1	5.3	-93.3	-29.0
NUCLEAR	27	17	10	6	14	17	15	-7.4	-11.8	-8.1
PETROLEUM	0	2	4	6	2	2	3	**	50.0	**
ENGINEERING, N.E.C.	28	22	36	42	45	28	37	.0	32.1	4.1
PHYSICAL SCIENCES	3,114	3,266	3,417	3,317	3,596	3,804	3,598	3.4	-5.4	2.1
ASTRONOMY	86	106	126	100	123	119	135	5.6	13.4	6.7
CHEMISTRY	1,889	2,035	2,111	2,147	2,255	2,471	2,307	4.6	-6.6	2.9
PHYSICS	1,138	1,124	1,179	1,070	1,207	1,214	1,154	1.1	-4.9	.2
PHYSICAL SCIENCES, N.E.C.	1	1	1	0	11	0	2	-100.0	**	10.4
ENVIRONMENTAL SCIENCES	223	297	307	256	252	288	254	4.4	-11.8	1.9
ATMOSPHERIC SCIENCES	34	46	46	32	42	45	28	4.8	-37.8	-2.7
GEOSCIENCES	136	209	204	175	156	181	163	4.9	-9.9	2.6
OCEANOGRAPHY	41	38	47	41	44	50	58	3.4	16.0	5.1
ENVIRONMENTAL SCIENCES, N.E.C.	12	4	10	8	10	12	5	.0	-58.3	-11.8
MATHEMATICAL/COMPUTER SCIENCES	70	89	91	102	90	84	71	3.1	-15.5	.2
COMPUTER SCIENCE	41	54	65	60	51	28	32	-6.2	14.3	-3.5
MATHEMATICS AND APPLIED MATHEMATICS	17	29	21	31	34	49	32	19.3	-34.7	9.5
STATISTICS	12	6	5	11	5	7	7	-8.6	.0	-7.4
LIFE SCIENCES	7,334	8,113	8,186	8,501	8,460	9,119	8,914	3.7	-2.2	2.8
AGRICULTURAL SCIENCES	120	191	174	128	152	194	168	8.3	-13.4	4.9
BIOLOGICAL SCIENCES	4,402	4,847	4,923	5,416	5,521	5,907	5,834	5.0	-1.2	4.1
ANATOMY	148	136	157	201	191	199	199	5.1	.0	4.3
BIOCHEMISTRY	1,102	1,144	1,136	1,205	1,230	1,300	1,280	2.8	-1.5	2.2
BIOLOGY	544	677	634	764	803	740	721	5.3	-2.6	4.1
BIOMETRY/EPIDEMIOLOGY	18	29	42	54	58	60	41	22.2	-31.7	12.5
BIOPHYSICS	177	195	198	85	128	123	117	-5.9	-4.9	-5.7
BOTANY	80	94	104	104	159	182	213	14.7	17.0	15.0
CELL BIOLOGY	196	232	213	247	296	398	373	12.5	-6.3	9.6
ECOLOGY	27	7	14	17	19	33	22	3.4	-33.3	-2.9
ENTOMOLOGY/PARASITOLOGY	75	85	82	78	88	102	88	5.3	-13.7	2.3
GENETICS	154	161	163	205	187	193	231	3.8	19.7	6.0
MICROBIOLOGY	517	594	658	694	692	751	787	6.4	4.8	6.2
NUTRITION	101	102	118	130	86	119	86	2.8	-27.7	-2.3
PATHOLOGY	262	280	309	352	355	309	353	2.8	14.2	4.4
PHARMACOLOGY	403	449	479	520	513	582	588	6.3	1.0	5.5
PHYSIOLOGY	402	475	475	555	526	603	525	7.0	-12.9	3.9
ZOOLOGY	174	169	123	169	150	174	174	.0	.0	.0
BIOSCIENCES, N.E.C.	22	18	18	36	40	39	36	10.0	-7.7	7.3
HEALTH SCIENCES	2,812	3,075	3,089	2,957	2,787	3,018	2,912	1.2	-3.5	.5
ANESTHESIOLOGY	37	43	33	29	29	21	34	-9.0	61.9	-1.2
CANCER/ONCOLOGY	70	95	76	97	109	90	83	4.3	-7.8	2.5
CARDIOLOGY	289	253	236	167	194	171	207	-8.4	21.1	-4.7
DENTISTRY	10	37	56	43	44	50	54	30.8	8.0	27.2
ENDOCRINOLOGY	93	127	113	71	79	117	101	3.9	-13.7	1.2
GASTROENTEROLOGY	101	86	95	41	55	85	83	-2.8	-2.4	-2.8
HEMATOLOGY	140	175	161	111	103	113	130	-3.5	15.0	-1.1
NEUROLOGY	166	172	204	237	267	232	220	5.7	-5.2	4.1
NURSING	16	1	0	6	9	8	0	-10.9	-100.0	-100.0
OBSTETRICS/GYNECOLOGY	78	77	75	55	51	45	51	-8.8	13.3	-5.9
OPHTHALMOLOGY	64	108	132	93	72	95	86	6.8	-9.5	4.3
OTORHINOLARYNGOLOGY	31	17	17	21	24	23	29	-4.9	26.1	-.9
PEDIATRICS	289	312	242	310	230	329	279	2.2	-15.2	-.5
PHARMACEUTICAL SCIENCES	175	169	174	194	201	189	159	1.3	-15.9	-1.4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	71	94	75	73	121	89	86	3.8	-3.4	2.8
PSYCHIATRY	196	167	213	242	202	210	209	1.2	-.5	.9
PULMONARY DISEASE	76	103	98	82	61	76	75	.0	-1.3	-.2
RADIOLOGY	125	155	114	98	97	123	116	-.3	-5.7	-1.1
SPEECH PATHOLOGY/AUDIOLOGY	15	17	17	31	14	15	7	.0	-53.3	-10.3
SURGERY	173	206	208	165	181	174	150	.1	-13.8	-2.0
VETERINARY SCIENCES	27	31	46	13	36	18	22	-6.5	22.2	-2.9
CLINICAL MEDICINE, N.E.C.	557	608	651	710	541	667	662	3.0	-.7	2.5
HEALTH RELATED, N.E.C.	13	22	53	68	67	78	69	34.8	-11.5	26.9
PSYCHOLOGY	222	255	240	282	302	372	393	9.0	5.6	8.5
SOCIAL SCIENCES	138	160	155	231	262	180	140	4.5	-22.2	.2
AGRICULTURAL ECONOMICS	21	23	7	3	6	3	3	-27.7	.0	-24.3
ANTHROPOLOGY	19	27	24	28	31	20	22	.9	10.0	2.1
ECONOMICS (EXCEPT AGRICULTURAL)	15	14	12	36	84	19	8	4.0	-57.9	-8.6
GEOGRAPHY	2	1	4	2	6	2	3	.0	50.0	6.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	6	2	5	7	5	38.3	-28.6	25.8
LINGUISTICS	6	8	7	6	19	7	9	2.6	28.6	6.0
POLITICAL SCIENCE	3	11	14	15	9	40	15	54.0	-62.5	25.8
SOCIOLOGY	53	66	71	94	82	73	67	5.5	-8.2	3.4
SOCIOLOGY/ANTHROPOLOGY	0	0	0	4	3	0	1	**	**	**
SOCIAL SCIENCES, N.E.C.	18	9	10	41	17	9	7	-10.9	-22.2	-12.6

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. -- SCIENCE/ENGINEERING POSTDOCTORATES SUPPORTED BY NON-FEDERAL SOURCES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82 1/

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	4,918	5,397	6,159	4,628	4,760	5,054	5,692	.5	12.6	2.1
ENGINEERING	354	343	313	298	290	296	308	-2.9	4.1	-2.0
AEROSPACE	19	5	7	5	1	3	6	-26.5	100.0	-15.2
AGRICULTURAL	9	17	11	14	5	6	4	-6.5	-33.3	-10.9
BIOMEDICAL	12	17	26	2	4	5	5	-13.6	.0	-11.8
CHEMICAL	91	70	51	64	63	64	75	-5.7	17.2	-2.7
CIVIL	43	27	54	45	34	28	42	-6.9	50.0	-.3
ELECTRICAL	42	45	31	42	42	41	58	-.4	41.5	4.7
ENGINEERING SCIENCE	8	12	17	9	18	28	11	23.2	-60.7	4.7
INDUSTRIAL	17	6	12	3	4	3	6	-25.1	100.0	-13.8
MECHANICAL	31	61	41	31	51	46	36	6.8	-21.7	2.2
METALLURGICAL/MATERIALS	51	54	38	60	43	44	45	-2.4	2.3	-1.8
MINING	2	1	1	0	0	1	9	-10.9	800.0	24.0
NUCLEAR	14	15	11	14	8	9	3	-7.1	-66.7	-19.8
PETROLEUM	1	0	1	0	4	0	1	-100.0	**	.0
ENGINEERING, N.E.C.	14	13	12	9	13	18	7	4.3	-61.1	-9.4
PHYSICAL SCIENCES	818	767	779	703	665	657	682	-3.6	3.8	-2.6
ASTRONOMY	29	34	41	29	18	13	13	-12.5	.0	-10.8
CHEMISTRY	633	575	547	457	455	399	499	-7.4	25.1	-3.3
PHYSICS	150	157	190	215	188	230	170	7.4	-26.1	1.8
PHYSICAL SCIENCES, N.E.C.	6	1	1	2	4	15	0	16.5	-100.0	-100.0
ENVIRONMENTAL SCIENCES	71	92	69	62	55	50	80	-5.7	60.0	1.7
ATMOSPHERIC SCIENCES	3	2	3	2	1	1	4	-16.7	300.0	4.2
GEOSCIENCES	45	63	38	44	38	32	53	5.5	65.6	2.4
OCEANOGRAPHY	16	18	17	13	13	17	20	1.0	17.6	3.2
ENVIRONMENTAL SCIENCES, N.E.C.	7	9	11	3	3	0	3	-100.0	**	-11.4
MATHEMATICAL/COMPUTER SCIENCES	97	101	54	98	115	63	169	-6.9	168.3	8.3
COMPUTER SCIENCE	14	25	10	15	11	20	25	6.1	25.0	8.6
MATHEMATICS AND APPLIED MATHEMATICS	68	59	33	71	88	39	137	-8.8	251.3	10.5
STATISTICS	15	17	11	12	16	4	7	-19.8	75.0	-10.3
LIFE SCIENCES	3,281	3,767	4,582	3,126	3,287	3,737	4,176	2.2	11.7	3.5
AGRICULTURAL SCIENCES	140	141	123	87	87	90	115	-7.1	27.8	-2.8
BIOLOGICAL SCIENCES	1,399	1,401	1,614	1,389	1,537	1,755	1,941	3.9	10.6	4.8
ANATOMY	49	41	61	55	59	62	81	4.0	30.6	7.4
BIOCHEMISTRY	249	275	262	306	318	373	365	7.0	-2.1	5.6
BIOLOGY	246	175	234	214	199	144	231	-8.5	60.4	-.9
BIOMETRY/EPIDEMIOLOGY	5	8	23	14	14	4	12	-3.7	200.0	13.3
BIOPHYSICS	29	25	21	18	26	33	14	2.2	-57.6	-9.9
BOTANY	94	85	80	59	61	58	85	-7.7	46.6	-1.4
CELL BIOLOGY	39	44	65	81	91	108	114	18.5	5.6	16.6
ECOLOGY	4	1	4	1	3	11	6	18.4	-45.5	6.0
ENTOMOLOGY/PARASITOLOGY	64	38	37	26	31	31	31	-11.4	.0	-9.8
GENETICS	45	47	46	26	64	97	80	13.7	-17.5	8.6
MICROBIOLOGY	186	207	256	175	187	233	256	3.8	9.9	4.7
NUTRITION	59	68	54	40	43	52	52	-2.1	.0	-1.8
PATHOLOGY	87	90	119	77	122	159	191	10.6	20.1	11.9
PHARMACOLOGY	78	108	138	113	111	173	208	14.2	20.2	15.0
PHYSIOLOGY	106	102	134	123	142	155	149	6.5	-3.9	5.0
ZOOLOGY	37	61	59	49	59	47	49	4.1	4.3	4.1
BIOSCIENCES, N.E.C.	22	26	21	12	7	15	17	-6.2	13.3	-3.6
HEALTH SCIENCES	1,742	2,225	2,845	1,650	1,663	1,892	2,120	1.4	12.1	2.8
ANESTHESIOLOGY	58	21	42	33	25	45	38	-4.1	-15.6	-5.9
CANCER/ONCOLOGY	16	25	54	13	24	29	15	10.4	-48.3	-.9
CARDIOLOGY	195	244	266	131	140	162	177	-3.0	9.3	-1.4
DENTISTRY	18	36	274	76	42	93	197	31.5	111.8	40.8
ENDOCRINOLOGY	45	81	89	34	41	33	41	-5.0	24.2	-1.3
GASTROENTEROLOGY	83	82	103	62	68	28	41	-16.6	46.4	-9.6
HEMATOLOGY	57	96	87	40	45	40	23	-5.7	-42.5	-12.2
NEUROLOGY	46	70	109	90	79	120	103	17.3	-14.2	12.2
NURSING	0	0	0	1	0	0	0	**	**	**
OBSTETRICS/GYNECOLOGY	89	105	92	88	71	68	54	-4.4	-20.6	-6.9
OPHTHALMOLOGY	40	55	54	45	50	49	65	3.4	32.7	7.2
OTORHINOLARYNGOLOGY	11	24	13	14	22	18	6	8.6	-66.7	-8.3
PEDIATRICS	183	220	272	201	203	258	272	5.9	5.4	5.8
PHARMACEUTICAL SCIENCES	26	33	63	41	32	54	79	13.0	46.3	17.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	17	56	38	39	40	46	66	18.0	43.5	21.4
PSYCHIATRY	83	114	116	50	94	82	83	-.2	1.2	.0
PULMONARY DISEASE	76	104	130	61	66	46	68	-8.0	47.8	-1.6
RADIOLOGY	49	27	76	40	59	32	69	-6.9	115.6	5.0
SPEECH PATHOLOGY/AUDIOLOGY	4	2	14	4	2	1	0	-20.6	-100.0	-100.0
SURGERY	140	200	242	116	127	133	190	-.9	42.9	4.5
VETERINARY SCIENCES	15	32	37	9	16	13	27	-2.4	107.7	8.8
CLINICAL MEDICINE, N.E.C.	471	583	664	435	383	510	470	1.3	-7.8	*
HEALTH RELATED, N.E.C.	20	15	10	27	34	32	36	8.1	12.5	8.8
PSYCHOLOGY	169	143	159	172	172	99	130	-8.5	31.3	-3.7
SOCIAL SCIENCES	128	184	203	169	176	152	147	2.9	-3.3	2.0
AGRICULTURAL ECONOMICS	7	7	21	3	2	3	7	-13.2	133.3	.0
ANTHROPOLOGY	14	18	29	13	9	10	12	-5.5	20.0	-2.2
ECONOMICS (EXCEPT AGRICULTURAL)	29	43	53	63	62	11	5	-14.9	-54.5	-22.2
GEOGRAPHY	5	11	5	3	9	21	2	27.0	-90.5	-12.3
HISTORY AND PHILOSOPHY OF SCIENCE	5	11	16	9	10	14	9	18.7	-35.7	8.8
LINGUISTICS	13	24	22	24	35	40	38	20.6	-5.0	16.6
POLITICAL SCIENCE	15	17	13	14	21	6	29	-14.2	383.3	9.9
SOCIOLOGY	36	48	27	21	17	17	22	-11.8	29.4	-6.8
SOCIOLOGY/ANTHROPOLOGY	1	0	1	0	0	0	1	-100.0	**	.0
SOCIAL SCIENCES, N.E.C.	3	5	16	19	11	30	22	46.8	-26.7	32.9

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. — SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-82 1/

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	16,832	18,452	19,487	18,086	18,411	19,646	19,733	2.6	0.4	2.3
NEW ENGLAND	2,178	2,559	3,042	2,583	2,615	2,950	2,928	5.2	-.7	4.3
CONNECTICUT	537	600	744	543	701	699	699	4.5	.0	3.8
MAINE	7	17	20	9	8	1	7	-27.7	600.0	.0
MASSACHUSETTS	1,462	1,742	2,076	1,857	1,695	2,048	2,072	5.8	1.2	5.1
NEW HAMPSHIRE	44	52	49	34	46	38	35	-2.4	-7.9	-3.2
RHODE ISLAND	75	90	98	85	108	95	64	4.0	-32.6	-2.2
VERMONT	53	58	55	55	57	69	51	4.5	-26.1	-.5
MIDDLE ATLANTIC	3,160	3,508	3,601	3,406	3,401	3,464	3,466	1.5	.1	1.3
NEW JERSEY	281	346	378	312	305	307	339	1.5	10.4	2.7
NEW YORK	2,041	2,194	2,306	2,274	2,325	2,310	2,311	2.1	*	1.8
PENNSYLVANIA	838	968	917	820	771	847	816	.2	-3.7	-.4
EAST NORTH CENTRAL	2,451	2,571	2,614	2,461	2,531	2,721	2,705	1.8	-.6	1.4
ILLINOIS	791	808	870	794	768	887	851	1.9	-4.1	1.0
INDIANA	327	357	332	330	340	377	462	2.4	22.5	5.1
MICHIGAN	420	413	407	370	449	437	475	.7	8.7	1.8
OHIO	459	573	554	493	498	514	509	1.9	-1.0	1.5
WISCONSIN	454	420	451	474	476	506	408	1.8	-19.4	-1.5
WEST NORTH CENTRAL	1,161	1,221	1,267	1,241	1,294	1,340	1,376	2.4	2.7	2.5
IOWA	218	233	248	261	270	248	252	2.2	1.6	2.1
KANSAS	166	143	158	159	157	163	167	-.3	2.5	.1
MINNESOTA	326	323	316	309	324	359	360	1.6	.3	1.4
MISSOURI	387	450	441	424	445	459	499	2.9	8.7	3.7
NEBRASKA	34	46	77	70	70	85	70	16.5	-17.6	10.9
NORTH DAKOTA	15	14	23	17	25	23	25	7.4	8.7	7.6
SOUTH DAKOTA	15	12	4	1	3	3	3	-23.5	.0	-20.5
SOUTH ATLANTIC	2,085	2,209	2,230	2,045	2,175	2,268	2,389	1.4	5.3	2.0
DELAWARE	27	51	51	48	37	9	12	-16.7	33.3	-10.9
DISTRICT OF COLUMBIA	124	131	196	107	126	145	114	2.6	-21.4	-1.2
FLORIDA	320	319	327	247	236	283	296	-2.0	4.6	-1.1
GEORGIA	259	282	198	183	170	227	281	-2.2	23.8	1.2
MARYLAND	485	461	536	502	546	605	662	3.8	9.4	4.5
NORTH CAROLINA	557	567	528	576	615	560	549	.1	-2.0	-.2
SOUTH CAROLINA	78	85	64	95	92	82	106	.3	29.3	4.5
VIRGINIA	217	295	303	253	319	323	333	6.9	3.1	6.3
WEST VIRGINIA	18	18	27	34	34	34	36	11.2	5.9	10.4
EAST SOUTH CENTRAL	522	682	704	679	590	621	582	2.9	-6.3	1.6
ALABAMA	133	206	250	219	203	164	164	3.6	.0	3.0
KENTUCKY	119	153	96	90	65	99	116	-3.0	17.2	-.4
MISSISSIPPI	40	54	63	57	41	35	40	-2.2	14.3	.0
TENNESSEE	230	269	295	313	281	323	262	5.8	-18.9	1.9
WEST SOUTH CENTRAL	1,193	1,081	1,303	1,308	1,207	1,378	1,483	2.4	7.6	3.2
ARKANSAS	59	29	9	15	10	24	21	-13.9	-12.5	-13.7
LOUISIANA	126	160	215	142	155	114	112	-1.7	-1.8	-1.7
OKLAHOMA	108	96	96	76	94	86	114	-3.7	32.6	.8
TEXAS	900	796	983	1,075	948	1,154	1,236	4.2	7.1	4.6
MOUNTAIN	776	782	952	731	822	969	904	3.8	-6.7	2.2
ARIZONA	167	162	204	202	213	275	240	8.7	-12.7	5.3
COLORADO	285	297	394	285	349	382	372	5.0	-2.6	3.9
IDAHO	34	42	47	12	26	13	18	-14.8	38.5	-8.7
MONTANA	28	29	47	38	24	22	26	-3.9	18.2	-1.1
NEVADA	6	5	6	14	19	16	14	17.8	-12.5	12.9
NEW MEXICO	40	37	47	46	52	52	49	4.5	-5.8	2.9
UTAH	203	196	196	125	139	198	171	-.4	-13.6	-2.4
WYOMING	13	14	11	9	0	11	14	-2.7	27.3	1.1
PACIFIC	3,265	3,814	3,732	3,618	3,760	3,922	3,889	3.1	-.8	2.5
ALASKA	1	8	8	3	4	3	3	20.1	.0	17.0
CALIFORNIA	2,727	3,016	3,069	2,990	3,166	3,262	3,211	3.0	-1.6	2.4
HAWAII	50	63	36	76	52	33	38	-6.7	15.2	-3.8
OREGON	185	185	178	148	124	154	128	-3.0	-16.9	-5.1
WASHINGTON	302	542	441	401	414	470	509	7.7	8.3	7.7
OUTLYING AREAS	41	25	42	14	16	13	11	-17.4	-15.4	-17.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-53. — MALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	14,749	14,868	15,555	15,269	2.7	-1.8
ENGINEERING	1,017	913	960	896	-2.8	-6.7
AEROSPACE	32	20	12	25	-38.8	108.3
AGRICULTURAL	24	8	9	6	-38.8	-33.3
BIOMEDICAL	26	23	28	24	3.8	-14.3
CHEMICAL	180	162	160	154	-5.7	-3.8
CIVIL	123	114	100	101	-9.8	1.0
ELECTRICAL	139	116	181	160	14.1	-11.6
ENGINEERING SCIENCE	71	74	84	71	8.8	-15.5
INDUSTRIAL	6	16	10	8	29.1	-20.0
MECHANICAL	141	134	121	126	-7.4	4.1
METALLURGICAL/MATERIALS	198	160	178	151	-5.2	-15.2
MINING	5	3	11	10	48.3	-9.1
NUCLEAR	18	21	22	16	10.6	-27.3
PETROLEUM	6	6	2	3	-42.3	50.0
ENGINEERING, N.E.C.	48	56	42	41	-6.5	-2.4
PHYSICAL SCIENCES	3,636	3,833	3,984	3,769	4.7	-5.4
ASTRONOMY	119	128	122	133	1.3	9.0
CHEMISTRY	2,301	2,380	2,502	2,410	4.3	-3.7
PHYSICS	1,215	1,310	1,345	1,224	5.2	-9.0
PHYSICAL SCIENCES, N.E.C.	1	15	15	2	287.3	-86.7
ENVIRONMENTAL SCIENCES	288	274	305	285	2.9	-6.6
ATMOSPHERIC SCIENCES	33	41	42	30	12.8	-28.6
GEOSCIENCES	193	172	193	186	.0	-3.6
OCEANOGRAPHY	51	48	58	61	6.6	5.2
ENVIRONMENTAL SCIENCES, N.E.C.	11	13	12	8	4.4	-33.3
MATHEMATICAL/COMPUTER SCIENCES	178	189	128	215	-15.2	68.0
COMPUTER SCIENCE	69	59	39	47	-24.8	20.5
MATHEMATICS AND APPLIED MATHEMATICS	89	110	79	158	-5.8	100.0
STATISTICS	20	20	10	10	-29.3	.0
LIFE SCIENCES	9,072	9,042	9,663	9,627	3.2	-.4
AGRICULTURAL SCIENCES	189	209	249	250	14.8	.4
BIOLOGICAL SCIENCES	5,115	5,264	5,644	5,565	5.0	-1.4
ANATOMY	187	182	183	198	-1.1	8.2
BIOCHEMISTRY	1,172	1,174	1,263	1,191	3.8	-5.7
BIOLOGY	713	709	601	648	-8.2	7.8
BIOMETRY/EPIDEMIOLOGY	40	47	41	36	1.2	-12.2
BIOPHYSICS	81	116	131	105	27.2	-19.8
BOTANY	124	161	178	209	19.8	17.4
CELL BIOLOGY	242	280	361	340	22.1	-5.8
ECOLOGY	17	19	33	24	39.3	-27.3
ENTOMOLOGY/PARASITOLOGY	81	100	109	105	16.0	-3.7
GENETICS	159	164	185	193	7.9	4.3
MICROBIOLOGY	629	644	705	731	5.9	3.7
NUTRITION	121	98	121	99	.0	-18.2
PATHOLOGY	326	363	367	362	6.1	-1.4
PHARMACOLOGY	493	495	599	630	10.2	5.2
PHYSIOLOGY	543	528	580	507	3.4	-12.6
ZOOLOGY	155	152	146	148	-2.9	1.4
BIOSCIENCES, N.E.C.	32	32	41	39	13.2	-4.9
HEALTH SCIENCES	3,768	3,569	3,770	3,812	*	1.1
ANESTHESIOLOGY	59	49	50	47	-7.9	-6.0
CANCER/ONCOLOGY	96	112	88	71	-4.3	-19.3
CARDIOLOGY	270	292	289	310	3.5	7.3
DENTISTRY	97	68	121	208	11.7	71.9
ENDOCRINOLOGY	90	96	121	97	16.0	-19.8
GASTROENTEROLOGY	84	106	92	106	4.7	15.2
HEMATOLOGY	129	125	123	111	-2.4	-9.8
NEUROLOGY	271	273	284	247	2.4	-13.0
NURSING	3	2	6	0	41.4	-100.0
OBSTETRICS/GYNECOLOGY	118	94	75	73	-20.3	-2.7
OPHTHALMOLOGY	108	96	111	116	1.4	4.5
OTORHINOLARYNGOLOGY	29	40	35	32	9.9	-8.6
PEDIATRICS	375	312	381	366	.8	-3.9
PHARMACEUTICAL SCIENCES	202	209	207	185	1.2	-10.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	89	101	88	100	-.6	13.6
PSYCHIATRY	197	199	180	178	-4.4	-1.1
PULMONARY DISEASE	132	114	113	123	-7.5	8.8
RADIOLOGY	116	134	116	150	.0	29.3
SPEECH PATHOLOGY/AUDIOLOGY	20	11	9	3	-32.9	-66.7
SURGERY	248	283	286	306	7.4	7.0
VETERINARY SCIENCES	15	37	17	26	6.5	52.9
CLINICAL MEDICINE, N.E.C.	950	750	898	885	-2.8	-1.4
HEALTH RELATED, N.E.C.	70	66	80	72	6.9	-10.0
PSYCHOLOGY	298	301	290	304	-1.4	4.8
SOCIAL SCIENCES	260	316	225	173	-7.0	-23.1
AGRICULTURAL ECONOMICS	6	8	6	9	.0	50.0
ANTHROPOLOGY	25	23	16	14	-20.0	-12.5
ECONOMICS (EXCEPT AGRICULTURAL)	82	121	22	10	-48.2	-54.5
GEOGRAPHY	2	12	16	4	182.8	-75.0
HISTORY AND PHILOSOPHY OF SCIENCE	8	12	15	7	36.9	-53.3
LINGUISTICS	19	38	32	28	29.8	-12.5
POLITICAL SCIENCE	17	23	37	28	47.5	-24.3
SOCIOLOGY	73	57	54	52	-14.0	-3.7
SOCIOLOGY/ANTHROPOLOGY	2	1	0	1	-100.0	**
SOCIAL SCIENCES, N.E.C.	26	21	27	20	1.9	-25.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. — FEMALE SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	3,337	3,543	4,091	4,464	10.7	9.1
ENGINEERING	50	66	81	83	27.3	2.5
AEROSPACE	0	0	2	0	**	-100.0
AGRICULTURAL	1	1	0	0	-100.0	**
BIOMEDICAL	6	5	6	6	.0	.0
CHEMICAL	12	21	11	21	-4.3	90.9
CIVIL	5	11	8	7	26.5	-12.5
ELECTRICAL	3	5	10	16	82.6	60.0
ENGINEERING SCIENCE	4	5	3	6	-13.4	100.0
INDUSTRIAL	1	0	3	1	73.2	-66.7
MECHANICAL	2	3	10	5	123.6	-50.0
METALLURGICAL/MATERIALS	11	12	15	15	16.8	.0
MINING	0	0	5	0	**	-100.0
NUCLEAR	2	1	4	2	41.4	-50.0
PETROLEUM	0	0	0	1	**	**
ENGINEERING, N.E.C.	3	2	4	3	15.5	-25.0
PHYSICAL SCIENCES	384	428	477	511	11.5	7.1
ASTRONOMY	10	13	10	15	.0	50.0
CHEMISTRY	303	330	368	396	10.2	7.6
PHYSICS	70	85	99	100	18.9	1.0
PHYSICAL SCIENCES, N.E.C.	1	0	0	0	-100.0	**
ENVIRONMENTAL SCIENCES	30	33	33	49	4.9	48.5
ATMOSPHERIC SCIENCES	1	2	4	2	100.0	-50.0
GEOSCIENCES	26	22	20	30	-12.3	50.0
OCEANOGRAPHY	3	9	9	17	73.2	88.9
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0
MATHEMATICAL/COMPUTER SCIENCES	22	16	19	25	-7.1	31.6
COMPUTER SCIENCE	6	3	9	10	22.5	11.1
MATHEMATICS AND APPLIED MATHEMATICS	13	12	9	11	-16.8	22.2
STATISTICS	3	1	1	4	-42.3	300.0
LIFE SCIENCES	2,555	2,705	3,193	3,463	11.8	8.5
AGRICULTURAL SCIENCES	26	30	35	33	16.0	-5.7
BIOLOGICAL SCIENCES	1,690	1,794	2,018	2,210	9.3	9.5
ANATOMY	69	68	78	82	6.3	5.1
BIOCHEMISTRY	339	374	410	454	10.0	10.7
BIOLOGY	265	293	283	304	3.3	7.4
BIOMETRY/EPIDEMIOLOGY	28	25	23	17	-9.4	-26.1
BIOPHYSICS	22	32	25	26	6.6	4.0
BOTANY	39	59	62	89	26.1	43.5
CELL BIOLOGY	86	107	145	147	29.8	1.4
ECOLOGY	1	3	11	4	231.7	-63.6
ENTOMOLOGY/PARASITOLOGY	23	19	24	14	2.2	-41.7
GENETICS	72	87	105	118	20.8	12.4
MICROBIOLOGY	240	233	279	312	7.8	11.8
NUTRITION	49	31	50	39	1.0	-22.0
PATHOLOGY	103	114	101	182	-1.0	80.2
PHARMACOLOGY	140	129	156	166	5.6	6.4
PHYSIOLOGY	135	140	178	167	14.8	-6.2
ZOOLOGY	63	57	75	75	9.1	.0
BIOSCIENCES, N.E.C.	16	15	13	14	-9.9	7.7
HEALTH SCIENCES	839	881	1,140	1,220	16.6	7.0
ANESTHESIOLOGY	3	5	16	25	130.9	56.3
CANCER/ONCOLOGY	14	21	31	27	48.8	-12.9
CARDIOLOGY	28	42	44	74	25.4	68.2
DENTISTRY	22	18	22	43	.0	95.5
ENDOCRINOLOGY	15	24	29	45	39.0	55.2
GASTROENTEROLOGY	19	17	21	18	5.1	-14.3
HEMATOLOGY	22	23	30	42	16.8	40.0
NEUROLOGY	56	73	68	76	10.2	11.8
NURSING	4	7	2	0	-29.3	-100.0
OBSTETRICS/GYNECOLOGY	25	28	38	32	23.3	-15.8
OPHTHALMOLOGY	30	26	33	35	4.9	6.1
OTORHINOLARYNGOLOGY	6	6	6	3	.0	-50.0
PEDIATRICS	136	121	206	185	23.1	-10.2
PHARMACEUTICAL SCIENCES	33	24	36	53	4.4	47.2
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	23	60	47	52	43.0	10.6
PSYCHIATRY	95	97	112	114	8.6	1.8
PULMONARY DISEASE	11	13	9	20	-9.5	122.2
RADIOLOGY	22	22	39	35	33.1	-10.3
SPEECH PATHOLOGY/AUDIOLOGY	15	5	7	4	-31.7	-42.9
SURGERY	33	25	21	34	-20.2	61.9
VETERINARY SCIENCES	7	15	14	23	41.4	64.3
CLINICAL MEDICINE, N.E.C.	195	174	279	247	19.6	-11.5
HEALTH RELATED, N.E.C.	25	35	30	33	9.5	10.0
PSYCHOLOGY	156	173	181	219	7.7	21.0
SOCIAL SCIENCES	140	122	107	114	-12.6	6.5
AGRICULTURAL ECONOMICS	0	0	0	1	**	**
ANTHROPOLOGY	16	17	14	20	-6.5	42.9
ECONOMICS (EXCEPT AGRICULTURAL)	17	25	8	3	-31.4	-62.5
GEOGRAPHY	3	3	7	1	52.8	-85.7
HISTORY AND PHILOSOPHY OF SCIENCE	3	3	6	7	41.4	16.7
LINGUISTICS	11	16	15	19	16.8	26.7
POLITICAL SCIENCE	12	7	9	16	-13.4	77.8
SOCIOLOGY	42	42	36	37	-7.4	2.8
SOCIOLOGY/ANTHROPOLOGY	2	2	0	1	-100.0	**
SOCIAL SCIENCES, N.E.C.	34	7	12	9	-40.6	-25.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. — SCIENCE/ENGINEERING POSTDOCTORATES WITH U.S. CITIZENSHIP IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	13,336	12,032	11,905	12,349	12,405	-1.9	0.5	-1.4
ENGINEERING	592	414	303	331	322	-13.5	-2.7	-11.5
AEROSPACE	18	9	6	8	6	-18.4	-25.0	-19.7
AGRICULTURAL	14	20	4	4	3	-26.9	-25.0	-26.5
BIOMEDICAL	59	22	17	20	24	-23.7	20.0	-16.5
CHEMICAL	80	65	46	43	42	-14.4	-2.3	-12.1
CIVIL	62	58	60	34	38	-13.9	11.8	-9.3
ELECTRICAL	99	68	39	104	82	1.2	-21.2	-3.7
ENGINEERING SCIENCE	53	36	29	37	36	-8.6	-2.7	-7.4
INDUSTRIAL	13	2	8	6	4	-17.6	-33.3	-21.0
MECHANICAL	79	57	43	25	31	-25.0	24.0	-17.1
METALLURGICAL/MATERIALS	70	41	27	25	28	-22.7	12.0	-16.7
MINING	6	0	1	5	2	-4.5	-60.0	-19.7
NUCLEAR	14	4	5	4	10	-26.9	150.0	-6.5
PETROLEUM	2	2	1	0	2	-100.0	**	.0
ENGINEERING, N.E.C.	23	30	17	16	14	-8.7	-12.5	-9.5
PHYSICAL SCIENCES	2,464	2,007	2,103	2,104	1,914	-3.9	-9.0	-4.9
ASTRONOMY	136	92	99	95	115	-8.6	21.1	-3.3
CHEMISTRY	1,419	1,175	1,195	1,216	1,145	-3.8	-5.8	-4.2
PHYSICS	907	738	798	778	652	-3.8	-16.2	-6.4
PHYSICAL SCIENCES, N.E.C.	2	2	11	15	2	65.5	-86.7	.0
ENVIRONMENTAL SCIENCES	271	207	205	213	213	-5.8	.0	-4.7
ATMOSPHERIC SCIENCES	42	17	26	24	15	-13.1	-37.5	-18.6
GEOSCIENCES	157	138	124	132	132	-4.2	.0	-3.4
OCEANOGRAPHY	56	41	44	48	60	-3.8	25.0	1.4
ENVIRONMENTAL SCIENCES, N.E.C.	16	11	11	9	6	-13.4	-33.3	-17.8
MATHEMATICAL/COMPUTER SCIENCES	94	107	100	70	102	-7.1	45.7	1.6
COMPUTER SCIENCE	59	57	45	25	44	-19.3	76.0	-5.7
MATHEMATICS AND APPLIED MATHEMATICS	29	37	45	39	51	7.7	30.8	12.0
STATISTICS	6	13	10	6	7	.0	16.7	3.1
LIFE SCIENCES	9,294	8,578	8,457	9,005	9,210	-.8	2.3	-.2
AGRICULTURAL SCIENCES	213	141	146	171	165	-5.3	-3.5	-5.0
BIOLOGICAL SCIENCES	4,588	4,927	4,964	5,286	5,367	3.6	1.5	3.2
ANATOMY	167	209	207	200	224	4.6	12.0	6.0
BIOCHEMISTRY	891	997	945	970	1,026	2.1	5.8	2.9
BIOLOGY	578	735	740	639	671	2.5	5.0	3.0
BIOMETRY/EPIDEMIOLOGY	47	54	62	46	39	-.5	-15.2	-3.7
BIOPHYSICS	142	85	102	86	79	-11.8	-8.1	-11.1
BOTANY	122	111	158	165	202	7.8	22.4	10.6
CELL BIOLOGY	200	239	269	354	338	15.3	-4.5	11.1
ECOLOGY	16	15	16	36	26	22.5	-27.8	10.2
ENTOMOLOGY/PARASITOLOGY	81	76	92	104	89	6.4	-14.4	1.9
GENETICS	163	166	182	212	231	6.8	9.0	7.2
MICROBIOLOGY	694	652	657	706	730	.4	3.4	1.0
NUTRITION	121	127	76	114	101	-1.5	-11.4	-3.5
PATHOLOGY	333	324	359	347	382	1.0	10.1	2.8
PHARMACOLOGY	391	434	403	507	493	6.7	-2.8	4.7
PHYSIOLOGY	458	505	488	574	505	5.8	-12.0	2.0
ZOOLOGY	152	168	180	182	189	4.6	3.8	4.5
BIOSCIENCES, N.E.C.	32	30	28	44	42	8.3	-4.5	5.6
HEALTH SCIENCES	4,493	3,510	3,347	3,548	3,678	-5.7	3.7	-3.9
ANESTHESIOLOGY	56	49	33	46	46	-4.8	.0	-3.9
CANCER/ONCOLOGY	92	76	105	92	64	.0	-30.4	-7.0
CARDIOLOGY	410	237	274	247	294	-11.9	19.0	-6.4
DENTISTRY	265	84	76	100	200	-21.6	100.0	-5.5
ENDOCRINOLOGY	144	87	93	102	91	-8.3	-10.8	-8.8
GASTROENTEROLOGY	165	76	107	91	99	-13.8	8.8	-9.7
HEMATOLOGY	201	135	125	129	126	-10.5	-2.3	-8.9
NEUROLOGY	260	246	277	270	246	.9	-8.9	-1.1
NURSING	0	7	9	8	0	**	-100.0	**
OBSTETRICS/GYNECOLOGY	104	78	74	51	57	-16.3	11.8	-11.3
OPHTHALMOLOGY	132	120	89	107	109	-5.1	1.9	-3.8
OTORHINOLARYNGOLOGY	22	26	32	24	19	2.2	-20.8	-2.9
PEDIATRICS	382	418	358	478	443	5.8	-7.3	3.0
PHARMACEUTICAL SCIENCES	107	110	62	93	87	-3.4	-6.5	-4.1
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	103	88	134	103	129	.0	25.2	4.6
PSYCHIATRY	300	265	266	264	251	-3.1	-4.9	-3.5
PULMONARY DISEASE	191	122	120	112	119	-12.5	6.3	-9.0
RADIOLOGY	121	91	104	89	114	-7.4	28.1	-1.2
SPEECH PATHOLOGY/AUDIOLOGY	29	34	16	14	6	-16.6	-57.1	-27.0
SURGERY	296	184	183	166	194	-13.5	16.9	-8.1
VETERINARY SCIENCES	60	16	42	22	41	-22.2	86.4	-7.3
CLINICAL MEDICINE, N.E.C.	1,000	892	707	863	858	-3.6	-.6	-3.0
HEALTH RELATED, N.E.C.	53	69	61	77	85	9.8	10.4	9.9
PSYCHOLOGY	360	420	444	417	458	3.7	9.8	4.9
SOCIAL SCIENCES	261	299	293	209	186	-5.4	-11.0	-6.6
AGRICULTURAL ECONOMICS	24	2	6	5	4	-32.4	-20.0	-30.1
ANTHROPOLOGY	46	34	37	26	31	-13.3	19.2	-7.6
ECONOMICS (EXCEPT AGRICULTURAL)	29	51	94	19	4	-10.0	-78.9	-32.7
GEOGRAPHY	2	2	4	7	1	36.8	-85.7	-12.9
HISTORY AND PHILOSOPHY OF SCIENCE	15	7	7	13	8	-3.5	-38.5	-11.8
LINGUISTICS	15	10	22	20	21	7.5	5.0	7.0
POLITICAL SCIENCE	21	25	19	22	26	1.2	18.2	4.4
SOCIOLOGY	88	106	84	79	72	-2.7	-8.9	-3.9
SOCIOLOGY/ANTHROPOLOGY	0	4	3	0	1	**	**	**
SOCIAL SCIENCES, N.E.C.	21	58	17	18	18	-3.8	.0	-3.0

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. — FOREIGN SCIENCE/ENGINEERING POSTDOCTORATES IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	6,151	6,054	6,506	7,297	7,328	4.4	0.4	3.6
ENGINEERING	653	653	676	710	657	2.1	-7.5	.1
AEROSPACE	28	23	14	6	19	-32.0	216.7	-7.5
AGRICULTURAL	6	5	5	5	3	-4.5	-40.0	-12.9
BIOMEDICAL	14	10	11	14	6	.0	-57.1	-15.6
CHEMICAL	130	127	137	128	133	-.4	3.9	.5
CIVIL	94	70	65	74	70	-5.8	-5.4	-5.7
ELECTRICAL	72	74	82	87	94	4.8	8.0	5.5
ENGINEERING SCIENCE	38	39	50	50	41	7.1	-18.0	1.5
INDUSTRIAL	7	5	8	7	5	.0	-28.6	-6.5
MECHANICAL	82	86	94	106	100	6.6	-5.7	4.0
METALLURGICAL/MATERIALS	139	168	145	168	138	4.9	-17.9	-.1
MINING	8	5	2	11	8	8.3	-27.3	.0
NUCLEAR	7	16	17	22	8	33.1	-63.6	2.7
PETROLEUM	3	4	5	2	2	-9.6	.0	-7.8
ENGINEERING, N.E.C.	25	21	41	30	30	4.7	.0	3.7
PHYSICAL SCIENCES	1,732	2,013	2,158	2,357	2,366	8.0	.4	6.4
ASTRONOMY	31	37	42	37	33	4.5	-10.8	1.3
CHEMISTRY	1,239	1,429	1,515	1,654	1,661	7.5	.4	6.0
PHYSICS	462	547	597	666	672	9.6	.9	7.8
PHYSICAL SCIENCES, N.E.C.	0	0	4	0	0	**	**	**
ENVIRONMENTAL SCIENCES	105	111	102	125	121	4.5	-3.2	2.9
ATMOSPHERIC SCIENCES	7	17	17	22	17	33.1	-22.7	19.4
GEOSCIENCES	85	81	70	81	84	-1.2	3.7	-.2
OCEANOGRAPHY	8	13	13	19	18	24.1	-5.3	17.6
ENVIRONMENTAL SCIENCES, N.E.C.	5	0	2	3	2	-12.0	-33.3	-16.7
MATHEMATICAL/COMPUTER SCIENCES	51	93	105	77	138	10.8	79.2	22.0
COMPUTER SCIENCE	16	18	17	23	13	9.5	-43.5	-4.1
MATHEMATICS AND APPLIED MATHEMATICS	25	65	77	49	118	18.3	140.8	36.4
STATISTICS	10	10	11	5	7	-15.9	40.0	-6.9
LIFE SCIENCES	3,474	3,049	3,290	3,851	3,880	2.6	.8	2.2
AGRICULTURAL SCIENCES	84	74	93	113	118	7.7	4.4	7.0
BIOLOGICAL SCIENCES	1,949	1,878	2,094	2,376	2,408	5.1	1.3	4.3
ANATOMY	51	47	43	61	56	4.6	-8.2	1.9
BIOCHEMISTRY	507	514	603	703	619	8.5	-11.9	4.1
BIOLOGY	290	243	262	245	281	-4.1	14.7	-.6
BIOMETRY/EPIDEMIOLOGY	18	14	10	18	14	.0	-22.2	-4.9
BIOPHYSICS	77	18	52	70	52	-2.4	-25.7	-7.6
BOTANY	62	52	62	75	96	4.9	28.0	9.1
CELL BIOLOGY	78	89	118	152	149	18.2	-2.0	13.8
ECOLOGY	2	3	6	8	2	41.4	-75.0	.0
ENTOMOLOGY/PARASITOLOGY	38	28	27	29	30	-6.5	3.4	-4.6
GENETICS	46	65	69	78	80	14.1	2.6	11.7
MICROBIOLOGY	220	217	222	278	313	6.0	12.6	7.3
NUTRITION	51	43	53	57	37	2.8	-35.1	-6.2
PATHOLOGY	95	105	118	121	162	6.2	33.9	11.3
PHARMACOLOGY	226	199	221	248	303	2.3	22.2	6.0
PHYSIOLOGY	151	173	180	184	169	5.1	-8.2	2.3
ZOOLOGY	30	50	29	39	34	4.8	-12.8	2.5
BIOSCIENCES, N.E.C.	7	18	19	10	11	9.3	10.0	9.5
HEALTH SCIENCES	1,441	1,097	1,103	1,362	1,354	-1.4	-.6	-1.2
ANESTHESIOLOGY	19	13	21	20	26	1.3	30.0	6.5
CANCER/ONCOLOGY	38	34	28	27	34	-8.2	25.9	-2.2
CARDIOLOGY	92	61	60	86	90	-1.7	4.7	-.4
DENTISTRY	65	35	10	43	51	-9.8	18.6	-4.7
ENDOCRINOLOGY	58	18	27	48	51	-4.6	6.3	-2.5
GASTROENTEROLOGY	33	27	16	22	25	-9.6	13.6	-5.4
HEMATOLOGY	47	16	23	24	27	-15.5	12.5	-10.5
NEUROLOGY	53	81	69	82	77	11.5	-6.1	7.8
NURSING	0	0	0	0	0	**	**	**
OBSTETRICS/GYNECOLOGY	63	65	48	62	48	-.4	-22.6	-5.3
OPHTHALMOLOGY	54	18	33	37	42	-9.0	13.5	-4.9
OTORHINOLARYNGOLOGY	8	9	14	17	16	20.7	-5.9	14.9
PEDIATRICS	132	93	75	109	108	-4.7	-.9	-3.9
PHARMACEUTICAL SCIENCES	130	125	171	150	151	3.6	.7	3.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	24	27	32	23	33.7	-28.1	18.1
PSYCHIATRY	29	27	30	28	41	-.9	46.4	7.2
PULMONARY DISEASE	37	21	7	10	24	-27.9	140.0	-8.3
RADIOLOGY	69	47	52	66	71	-1.1	7.6	.6
SPEECH PATHOLOGY/AUDIOLOGY	2	1	0	2	1	.0	-50.0	-12.9
SURGERY	154	97	125	141	146	-2.2	3.5	-1.1
VETERINARY SCIENCES	23	6	10	9	8	-20.9	-11.1	-19.0
CLINICAL MEDICINE, N.E.C.	315	253	217	314	274	-.1	-12.7	-2.8
HEALTH RELATED, N.E.C.	10	26	40	33	20	34.8	-39.4	14.9
PSYCHOLOGY	39	34	30	54	65	8.5	20.4	10.8
SOCIAL SCIENCES	97	101	145	123	101	6.1	-17.9	.8
AGRICULTURAL ECONOMICS	4	4	2	1	6	-29.3	500.0	8.4
ANTHROPOLOGY	7	7	3	4	3	-13.1	-25.0	-15.6
ECONOMICS (EXCEPT AGRICULTURAL)	36	48	52	11	9	-25.7	-18.2	-24.2
GEOGRAPHY	7	3	11	16	4	23.0	-75.0	-10.6
HISTORY AND PHILOSOPHY OF SCIENCE	7	4	8	8	6	3.4	-25.0	-3.0
LINGUISTICS	14	20	32	27	26	17.8	-3.7	13.2
POLITICAL SCIENCE	6	4	11	24	18	41.4	-25.0	24.6
SOCIOLOGY	10	9	15	11	17	2.4	54.5	11.2
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	1	-100.0	**	.0
SOCIAL SCIENCES, N.E.C.	5	2	11	21	11	43.2	-47.6	17.1

1/ DATA ON POSTDOCTORATES WERE NOT COLLECTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. — NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	2,679	3,267	3,556	4,040	15.2	13.6
ENGINEERING	273	423	500	671	35.3	34.2
AEROSPACE	18	31	8	26	-33.3	225.0
AGRICULTURAL	9	5	3	3	-42.3	.0
BIOMEDICAL	6	4	4	10	-18.4	150.0
CHEMICAL	37	51	75	96	42.4	28.0
CIVIL	25	38	30	115	9.5	283.3
ELECTRICAL	65	77	79	74	10.2	-6.3
ENGINEERING SCIENCE	30	26	38	33	12.5	-13.2
INDUSTRIAL	3	14	4	27	15.5	575.0
MECHANICAL	45	68	113	149	58.5	31.9
METALLURGICAL/MATERIALS	21	80	96	89	113.8	-7.3
MINING	9	0	0	9	-100.0	**
NUCLEAR	2	22	21	19	224.0	-9.5
PETROLEUM	1	0	0	0	-100.0	**
ENGINEERING, N.E.C.	2	7	29	21	280.8	-27.6
PHYSICAL SCIENCES	463	474	631	805	16.7	27.6
ASTRONOMY	53	40	66	71	11.6	7.6
CHEMISTRY	215	253	300	347	18.1	15.7
PHYSICS	195	181	265	386	16.6	45.7
PHYSICAL SCIENCES, N.E.C.	0	0	0	1	**	**
ENVIRONMENTAL SCIENCES	104	154	143	238	17.3	66.4
ATMOSPHERIC SCIENCES	30	23	32	29	3.3	-9.4
GEOSCIENCES	50	82	66	100	14.9	51.5
OCEANOGRAPHY	20	38	33	99	28.5	200.0
ENVIRONMENTAL SCIENCES, N.E.C.	4	11	12	10	73.2	-16.7
MATHEMATICAL/COMPUTER SCIENCES	113	135	169	129	22.3	-23.7
COMPUTER SCIENCE	59	71	81	80	17.2	-1.2
MATHEMATICS AND APPLIED MATHEMATICS	45	55	59	29	14.5	-50.8
STATISTICS	9	9	29	20	79.5	-31.0
LIFE SCIENCES	1,484	1,831	1,736	1,911	8.2	10.1
AGRICULTURAL SCIENCES	54	70	68	70	12.2	2.9
BIOLOGICAL SCIENCES	935	1,092	1,071	1,296	7.0	21.0
ANATOMY	21	33	66	43	77.3	-34.8
BIOCHEMISTRY	198	224	200	218	.5	9.0
BIOLOGY	148	234	244	296	28.4	21.3
BIOMETRY/EPIDEMIOLOGY	14	16	21	15	22.5	-28.6
BIOPHYSICS	21	33	53	54	58.9	1.9
BOTANY	16	41	32	76	41.4	137.5
CELL BIOLOGY	24	33	37	38	24.2	2.7
ECOLOGY	12	14	10	5	-8.7	-50.0
ENTOMOLOGY/PARASITOLOGY	33	43	35	47	3.0	34.3
GENETICS	19	30	21	20	5.1	-4.8
MICROBIOLOGY	59	64	56	103	-2.6	83.9
NUTRITION	60	78	26	38	-34.2	46.2
PATHOLOGY	68	46	42	43	-21.4	2.4
PHARMACOLOGY	116	98	69	90	-22.9	30.4
PHYSIOLOGY	88	89	119	160	16.3	34.5
ZOOLOGY	30	16	22	29	-14.4	31.8
BIOSCIENCES, N.E.C.	8	0	18	21	50.0	16.7
HEALTH SCIENCES	495	669	597	545	9.8	-8.7
ANESTHESIOLOGY	15	7	4	1	-48.4	-75.0
CANCER/ONCOLOGY	20	23	11	21	-25.8	90.9
CARDIOLOGY	31	16	29	36	-3.3	24.1
DENTISTRY	1	6	3	2	73.2	-33.3
ENDOCRINOLOGY	0	5	11	7	**	-36.4
GASTROENTEROLOGY	7	9	8	10	6.9	25.0
HEMATOLOGY	5	22	4	1	-10.6	-75.0
NEUROLOGY	33	47	44	36	15.5	-18.2
NURSING	2	0	2	8	.0	300.0
OBSTETRICS/GYNECOLOGY	9	3	3	9	-42.3	200.0
OPHTHALMOLOGY	12	22	7	14	-23.6	100.0
OTORHINOLARYNGOLOGY	11	19	11	6	.0	-45.5
PEDIATRICS	8	75	35	43	109.2	22.9
PHARMACEUTICAL SCIENCES	34	25	31	24	-4.5	-22.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	22	33	33	35.4	.0
PSYCHIATRY	107	123	141	142	14.8	.7
PULMONARY DISEASE	2	12	8	9	100.0	12.5
RADIOLOGY	33	45	59	31	33.7	-47.5
SPEECH PATHOLOGY/AUDIOLOGY	1	10	13	10	260.6	-23.1
SURGERY	29	43	36	43	11.4	19.4
VETERINARY SCIENCES	7	11	1	3	-62.2	200.0
CLINICAL MEDICINE, N.E.C.	103	120	98	55	-2.5	-43.9
HEALTH RELATED, N.E.C.	7	4	5	1	-15.5	-80.0
PSYCHOLOGY	63	103	155	150	56.9	-3.2
SOCIAL SCIENCES	179	147	222	136	11.4	-38.7
AGRICULTURAL ECONOMICS	8	15	22	18	65.8	-18.2
ANTHROPOLOGY	19	23	20	19	2.6	-5.0
ECONOMICS (EXCEPT AGRICULTURAL)	60	35	73	49	10.3	-32.9
GEOGRAPHY	1	4	6	3	144.9	-50.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	2	-100.0	**
LINGUISTICS	6	0	9	3	22.5	-66.7
POLITICAL SCIENCE	29	16	36	6	11.4	-83.3
SOCIOLOGY	44	37	48	23	4.4	-52.1
SOCIOLOGY/ANTHROPOLOGY	0	1	0	0	**	**
SOCIAL SCIENCES, N.E.C.	11	15	8	13	-14.7	62.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. — MALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	2,069	2,573	2,805	3,188	16.4	13.7
ENGINEERING	260	398	468	638	34.2	36.3
AEROSPACE	17	29	8	25	-31.4	212.5
AGRICULTURAL	9	5	2	2	-52.9	.0
BIOMEDICAL	6	2	3	9	-29.3	200.0
CHEMICAL	35	48	70	89	41.4	27.1
CIVIL	23	35	24	111	2.2	362.5
ELECTRICAL	65	74	74	70	6.7	-5.4
ENGINEERING SCIENCE	28	23	35	30	11.8	-14.3
INDUSTRIAL	3	12	2	27	-18.4	1250.0
MECHANICAL	43	65	111	144	60.7	29.7
METALLURGICAL/MATERIALS	18	76	90	85	123.6	-5.6
MINING	8	0	0	9	-100.0	**
NUCLEAR	2	22	20	18	216.2	-10.0
PETROLEUM	1	0	0	0	-100.0	**
ENGINEERING, N.E.C.	2	7	29	19	280.8	-34.5
PHYSICAL SCIENCES	411	419	541	688	14.7	27.2
ASTRONOMY	51	37	61	65	9.4	6.6
CHEMISTRY	175	209	227	255	13.9	12.3
PHYSICS	185	173	253	367	16.9	45.1
PHYSICAL SCIENCES, N.E.C.	0	0	0	1	**	**
ENVIRONMENTAL SCIENCES	97	135	130	217	15.8	66.9
ATMOSPHERIC SCIENCES	28	21	32	28	6.9	-12.5
GEOSCIENCES	48	75	60	93	11.8	55.0
OCEANOGRAPHY	17	30	28	87	28.3	210.7
ENVIRONMENTAL SCIENCES, N.E.C.	4	9	10	9	58.1	-10.0
MATHEMATICAL/COMPUTER SCIENCES	102	123	163	118	26.4	-27.6
COMPUTER SCIENCE	54	63	77	74	19.4	-3.9
MATHEMATICS AND APPLIED MATHEMATICS	40	51	57	25	19.4	-56.1
STATISTICS	8	9	29	19	90.4	-34.5
LIFE SCIENCES	1,037	1,331	1,223	1,341	8.6	9.6
AGRICULTURAL SCIENCES	49	59	54	56	5.0	3.7
BIOLOGICAL SCIENCES	620	751	757	926	10.5	22.3
ANATOMY	11	22	43	31	97.7	-27.9
BIOCHEMISTRY	127	158	130	151	1.2	16.2
BIOLOGY	78	143	153	195	40.1	27.5
BIOMETRY/EPIDEMIOLOGY	10	12	16	7	26.5	-56.3
BIOPHYSICS	13	25	42	44	79.7	4.8
BOTANY	13	34	23	57	33.0	147.8
CELL BIOLOGY	18	24	28	25	24.7	-10.7
ECOLOGY	10	13	10	2	.0	-80.0
ENTOMOLOGY/PARASITOLOGY	31	36	28	45	-5.0	60.7
GENETICS	17	23	11	9	-19.6	-18.2
MICROBIOLOGY	36	40	37	71	1.4	91.9
NUTRITION	39	52	21	26	-26.6	23.8
PATHOLOGY	53	32	34	33	-19.9	-2.9
PHARMACOLOGY	86	67	60	64	-16.5	6.7
PHYSIOLOGY	59	59	91	124	24.2	36.3
ZOOLOGY	14	11	12	23	-7.4	91.7
BIOSCIENCES, N.E.C.	5	0	18	19	89.7	5.6
HEALTH SCIENCES	368	521	412	359	5.8	-12.9
ANESTHESIOLOGY	15	6	4	1	-48.4	-75.0
CANCER/ONCOLOGY	14	19	11	11	-11.4	.0
CARDIOLOGY	18	13	23	28	13.0	21.7
DENTISTRY	1	4	3	2	73.2	-33.3
ENDOCRINOLOGY	0	5	11	6	**	-45.5
GASTROENTEROLOGY	6	8	6	7	.0	16.7
HEMATOLOGY	1	14	1	1	.0	.0
NEUROLOGY	26	41	38	29	20.9	-23.7
NURSING	1	0	2	1	41.4	-50.0
OBSTETRICS/GYNECOLOGY	8	3	2	2	-50.0	.0
OPHTHALMOLOGY	11	21	4	9	-39.7	125.0
OTORHINOLARYNGOLOGY	10	18	9	3	-5.1	-66.7
PEDIATRICS	4	64	24	27	144.9	12.5
PHARMACEUTICAL SCIENCES	31	21	24	18	-12.0	-25.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	10	16	28	21	67.3	-25.0
PSYCHIATRY	72	75	76	81	2.7	6.6
PULMONARY DISEASE	2	10	8	8	100.0	.0
RADIOLOGY	23	30	35	21	23.4	-40.0
SPEECH PATHOLOGY/AUDIOLOGY	1	7	9	7	200.0	-22.2
SURGERY	25	34	26	37	2.0	42.3
VETERINARY SCIENCES	4	10	0	2	-100.0	**
CLINICAL MEDICINE, N.E.C.	79	96	65	37	-9.3	-43.1
HEALTH RELATED, N.E.C.	6	4	3	0	-29.3	-100.0
PSYCHOLOGY	30	57	98	89	80.7	-9.2
SOCIAL SCIENCES	132	110	182	97	17.4	-46.7
AGRICULTURAL ECONOMICS	8	14	20	15	58.1	-25.0
ANTHROPOLOGY	11	13	13	7	8.7	-46.2
ECONOMICS (EXCEPT AGRICULTURAL)	50	28	70	42	18.3	-40.0
GEOGRAPHY	1	4	5	1	123.6	-80.0
HISTORY AND PHILOSOPHY OF SCIENCE	1	1	0	2	-100.0	**
LINGUISTICS	4	0	7	0	32.3	-100.0
POLITICAL SCIENCE	27	16	25	5	-3.8	-80.0
SOCIOLOGY	23	24	36	15	25.1	-58.3
SOCIOLOGY/ANTHROPOLOGY	0	1	0	0	**	**
SOCIAL SCIENCES, N.E.C.	7	9	6	10	-7.4	66.7

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. — FEMALE NON-FACULTY SCIENTISTS AND ENGINEERS IN DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1979-82

FIELD	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL FIELDS	610	694	751	852	11.0	13.4
ENGINEERING	13	25	32	33	56.9	3.1
AEROSPACE	1	2	0	1	-100.0	**
AGRICULTURAL	0	0	1	1	**	.0
BIOMEDICAL	0	2	1	1	**	.0
CHEMICAL	2	3	5	7	58.1	40.0
CIVIL	2	3	6	4	73.2	-33.3
ELECTRICAL	0	3	5	4	**	-20.0
ENGINEERING SCIENCE	2	3	3	3	22.5	.0
INDUSTRIAL	0	2	2	0	**	-100.0
MECHANICAL	2	3	2	5	.0	150.0
METALLURGICAL/MATERIALS	3	4	6	4	41.4	-33.3
MINING	1	0	0	0	-100.0	**
NUCLEAR	0	0	1	1	**	.0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	0	0	0	2	**	**
PHYSICAL SCIENCES	52	55	90	117	31.6	30.0
ASTRONOMY	2	3	5	6	58.1	20.0
CHEMISTRY	40	44	73	92	35.1	26.0
PHYSICS	10	8	12	19	9.5	58.3
PHYSICAL SCIENCES, N.E.C.	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	7	19	13	21	36.3	61.5
ATMOSPHERIC SCIENCES	2	2	0	1	-100.0	**
GEOSCIENCES	2	7	6	7	73.2	16.7
OCEANOGRAPHY	3	8	5	12	29.1	140.0
ENVIRONMENTAL SCIENCES, N.E.C.	0	2	2	1	**	-50.0
MATHEMATICAL/COMPUTER SCIENCES	11	12	6	11	-26.1	83.3
COMPUTER SCIENCE	5	8	4	6	-10.6	50.0
MATHEMATICS AND APPLIED MATHEMATICS	5	4	2	4	-36.8	100.0
STATISTICS	1	0	0	1	-100.0	**
LIFE SCIENCES	447	500	513	570	7.1	11.1
AGRICULTURAL SCIENCES	5	11	14	14	67.3	.0
BIOLOGICAL SCIENCES	315	341	314	370	-.2	17.8
ANATOMY	10	11	23	12	51.7	-47.8
BIOCHEMISTRY	71	66	70	67	-.7	-4.3
BIOLOGY	70	91	91	101	14.0	11.0
BIOMETRY/EPIDEMIOLOGY	4	4	5	8	11.8	60.0
BIOPHYSICS	8	8	11	10	17.3	-9.1
BOTANY	3	7	9	19	73.2	111.1
CELL BIOLOGY	6	9	9	13	22.5	44.4
ECOLOGY	2	1	0	3	-100.0	**
ENTOMOLOGY/PARASITOLOGY	2	7	7	2	87.1	-71.4
GENETICS	2	7	10	11	123.6	10.0
MICROBIOLOGY	23	24	19	32	-9.1	68.4
NUTRITION	21	26	5	12	-51.2	140.0
PATHOLOGY	15	14	8	10	-27.0	25.0
PHARMACOLOGY	30	31	9	26	-45.2	188.9
PHYSIOLOGY	29	30	28	36	-1.7	28.6
ZOOLOGY	16	5	10	6	-20.9	-40.0
BIOSCIENCES, N.E.C.	3	0	0	2	-100.0	**
HEALTH SCIENCES	127	148	185	184	20.7	.5
ANESTHESIOLOGY	0	1	0	0	**	**
CANCER/ONCOLOGY	6	4	0	10	-100.0	**
CARDIOLOGY	13	3	6	8	-32.1	33.3
DENTISTRY	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	1	**	**
GASTROENTEROLOGY	1	1	2	3	41.4	50.0
HEMATOLOGY	4	8	3	0	-13.4	-100.0
NEUROLOGY	7	6	6	7	-7.4	16.7
NURSING	1	0	0	7	-100.0	**
OBSTETRICS/GYNECOLOGY	1	0	1	7	.0	600.0
OPHTHALMOLOGY	1	1	3	5	73.2	66.7
OTORHINOLARYNGOLOGY	1	1	2	3	41.4	50.0
PEDIATRICS	4	11	11	16	65.8	45.5
PHARMACEUTICAL SCIENCES	3	4	7	6	52.8	-14.3
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	8	6	5	12	-20.9	140.0
PSYCHIATRY	35	48	65	61	36.3	-6.2
PULMONARY DISEASE	0	2	0	1	**	**
RADIOLOGY	10	15	24	10	54.9	-58.3
SPEECH PATHOLOGY/AUDIOLOGY	0	3	4	3	**	-25.0
SURGERY	4	9	10	6	58.1	-40.0
VETERINARY SCIENCES	3	1	1	1	-42.3	.0
CLINICAL MEDICINE, N.E.C.	24	24	33	18	17.3	-45.5
HEALTH RELATED, N.E.C.	1	0	2	1	41.4	-50.0
PSYCHOLOGY	33	46	57	61	31.4	7.0
SOCIAL SCIENCES	47	37	40	39	-7.7	-2.5
AGRICULTURAL ECONOMICS	0	1	2	3	**	50.0
ANTHROPOLOGY	8	10	7	12	-6.5	71.4
ECONOMICS (EXCEPT AGRICULTURAL)	10	7	3	7	-45.2	133.3
GEOGRAPHY	0	0	1	2	**	100.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	2	0	2	3	.0	50.0
POLITICAL SCIENCE	2	0	11	1	134.5	-90.9
SOCIOLOGY	21	13	12	8	-24.4	-33.3
SOCIOLOGY/ANTHROPOLOGY	0	0	0	0	0	0
SOCIAL SCIENCES, N.E.C.	4	6	2	3	-29.3	50.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-1. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	43,772	45,960	51,754	52,618	49,219	51,480	52,268	2.7	1.5	2.6
ENGINEERING	3,781	3,860	4,719	5,110	4,876	5,948	6,327	7.8	6.4	7.6
AEROSPACE	34	28	22	5	7	7	8	-23.2	14.3	-18.7
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	22	18	30	45	48	45	52	12.7	15.6	13.1
CHEMICAL	118	135	130	185	127	204	237	9.6	16.2	10.5
CIVIL	636	695	912	936	923	1,122	945	9.9	-15.8	5.8
ELECTRICAL	713	715	1,050	971	1,065	1,255	1,408	9.9	12.2	10.2
ENGINEERING SCIENCE	46	39	117	165	163	212	290	29.0	36.8	30.1
INDUSTRIAL	700	662	788	600	674	838	863	3.0	3.0	3.0
MECHANICAL	508	445	590	697	733	705	707	5.6	.3	4.8
METALLURGICAL/MATERIALS	40	43	69	100	71	78	94	11.8	20.5	13.0
MINING	9	11	7	6	7	18	25	12.2	38.9	15.7
NUCLEAR	25	12	19	4	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	1	3	3	6	**	100.0	**
ENGINEERING, N.E.C.	930	1,057	985	1,395	1,055	1,461	1,692	7.8	15.8	8.9
PHYSICAL SCIENCES	1,781	1,815	2,048	1,782	1,551	1,597	1,687	-1.8	5.6	-.8
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	1,227	1,247	1,417	1,215	1,112	1,097	1,225	-1.8	11.7	*
PHYSICS	424	428	460	380	316	284	285	-6.5	.4	-5.5
PHYSICAL SCIENCES, N.E.C.	130	140	171	187	123	216	177	8.8	-18.1	4.5
ENVIRONMENTAL SCIENCES	1,328	1,287	1,348	1,273	1,413	1,443	1,447	1.4	.3	1.2
ATMOSPHERIC SCIENCES	0	0	10	12	19	9	12	**	33.3	**
GEOSCIENCES	450	484	547	553	543	518	578	2.4	11.6	3.6
OCEANOGRAPHY	27	37	44	38	145	149	157	32.9	5.4	28.6
ENVIRONMENTAL SCIENCES, N.E.C.	851	766	747	670	706	767	700	-1.7	-8.7	-2.8
MATHEMATICAL/COMPUTER SCIENCES	3,990	4,001	4,051	4,085	3,908	5,198	6,593	4.5	26.8	7.4
COMPUTER SCIENCE	1,463	1,660	1,876	2,196	2,153	3,277	4,095	14.4	25.0	15.8
MATHEMATICS AND APPLIED MATHEMATICS	2,339	2,142	1,967	1,688	1,598	1,792	2,355	-4.3	31.4	.1
STATISTICS	188	199	208	201	157	129	143	-6.1	10.9	-3.8
LIFE SCIENCES	9,623	10,695	12,128	12,065	11,781	12,150	12,174	4.0	.2	3.4
AGRICULTURAL SCIENCES	506	553	573	832	661	721	723	6.1	.3	5.2
BIOLOGICAL SCIENCES	5,637	6,202	6,617	6,159	5,467	5,098	4,567	-1.7	-10.4	-3.0
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	137	143	117	110	62	39	34	-18.9	-12.8	-18.1
BIOLOGY	4,637	5,141	5,378	4,956	4,237	4,070	3,606	-2.2	-11.4	-3.5
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	73	97	44	26	22	22	24	-18.1	9.1	-14.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	63	51	53	33	**	-37.7	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	53	51	52	48	52	50	50	-1.0	.0	-.8
MICROBIOLOGY	179	218	285	187	202	186	145	.6	-22.0	-3.0
NUTRITION	116	123	221	244	272	234	256	12.4	9.4	12.0
PATHOLOGY	274	263	259	330	395	238	210	-2.3	-11.8	-3.7
PHARMACOLOGY	0	0	3	8	10	11	11	**	.0	**
PHYSIOLOGY	63	58	64	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	50	59	46	37	36	41	32	-3.3	-22.0	-6.2
BIOSCIENCES, N.E.C.	55	49	148	150	128	154	166	18.7	7.8	17.1
HEALTH SCIENCES	3,480	3,940	4,938	5,374	5,653	6,331	6,884	10.5	8.7	10.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	21	33	56	**	69.7	**
DENTISTRY	24	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	29	29	14	14	**	.0	**
NURSING	538	633	956	1,195	1,127	1,632	1,957	20.3	19.9	20.3
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	28	29	26	26	23	**	-11.5	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	58	61	99	129	90	96	101	8.8	5.2	8.2
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	1,226	1,471	1,741	1,835	1,867	2,051	1,919	9.0	-6.4	6.6
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	28	21	15	15	23	25	.7	8.7	1.8
CLINICAL MEDICINE, N.E.C.	7	62	177	240	396	361	370	92.9	2.5	76.3
HEALTH RELATED, N.E.C.	1,605	1,664	1,890	1,902	2,082	2,095	2,419	4.5	15.5	6.0
PSYCHOLOGY	9,278	9,379	10,570	11,813	11,212	11,616	11,132	3.8	-4.2	2.6
SOCIAL SCIENCES	13,991	14,923	16,890	16,190	14,478	13,528	12,908	-.6	-4.6	-1.1
AGRICULTURAL ECONOMICS	15	17	21	23	42	27	44	10.3	63.0	16.6
ANTHROPOLOGY	406	416	540	432	399	313	260	-4.2	-16.9	-6.2
ECONOMICS (EXCEPT AGRICULTURAL)	1,058	937	948	844	901	937	1,088	-2.0	16.1	.4
GEOGRAPHY	651	717	577	462	481	451	468	-5.9	3.8	-4.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	290	307	273	137	135	129	129	-12.6	.0	-10.9
POLITICAL SCIENCE	5,779	6,270	7,453	7,279	6,886	6,785	6,151	2.7	-9.3	.9
SOCIOLOGY	1,055	1,051	1,091	957	775	769	665	-5.1	-13.5	-6.4
SOCIOLOGY/ANTHROPOLOGY	146	132	132	98	111	89	91	-7.9	2.2	-6.5
SOCIAL SCIENCES, N.E.C.	4,591	5,076	5,855	5,958	4,748	4,028	4,012	-2.2	-.4	-1.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-2. -- SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	29,657	31,300	35,128	36,130	32,438	34,778	34,818	2.7	0.1	2.3
ENGINEERING	2,024	2,303	2,764	3,059	2,825	3,604	3,829	10.1	6.2	9.5
AEROSPACE	24	19	8	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	35	38	35	34	**	-2.9	**
CHEMICAL	53	56	73	100	28	92	124	9.6	34.8	12.9
CIVIL	517	567	753	772	735	931	746	10.3	-19.9	5.4
ELECTRICAL	271	294	512	438	530	632	732	15.2	15.8	15.3
ENGINEERING SCIENCE	3	2	7	7	8	6	12	12.2	100.0	21.9
INDUSTRIAL	226	229	247	151	269	385	429	9.3	11.4	9.6
MECHANICAL	187	194	296	267	289	301	316	8.3	5.0	7.8
METALLURGICAL/MATERIALS	19	26	48	68	38	28	35	6.7	25.0	9.1
MINING	9	11	7	6	7	18	25	12.2	38.9	15.7
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	1	3	3	6	**	100.0	**
ENGINEERING, N.E.C.	715	905	813	1,214	880	1,173	1,370	8.6	15.8	9.7
PHYSICAL SCIENCES	1,274	1,343	1,535	1,296	1,176	1,249	1,314	-.3	5.2	.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	834	880	1,039	880	799	794	898	-.8	13.1	1.1
PHYSICS	336	343	352	308	254	240	239	-5.5	-.4	-4.7
PHYSICAL SCIENCES, N.E.C.	104	120	144	108	123	215	177	12.9	-17.7	7.9
ENVIRONMENTAL SCIENCES	1,284	1,244	1,266	1,181	1,304	1,244	1,310	-.5	5.3	.3
ATMOSPHERIC SCIENCES	0	0	10	12	19	9	12	**	33.3	**
GEOSCIENCES	446	481	547	553	543	518	578	2.5	11.6	3.8
OCEANOGRAPHY	27	37	44	38	145	149	157	32.9	5.4	28.6
ENVIRONMENTAL SCIENCES, N.E.C.	811	726	665	578	597	568	563	-5.8	-.9	-5.1
MATHEMATICAL/COMPUTER SCIENCES	2,769	2,726	2,606	2,761	2,530	3,522	4,578	4.1	30.0	7.4
COMPUTER SCIENCE	543	696	769	1,135	1,023	1,822	2,283	22.4	25.3	22.8
MATHEMATICS AND APPLIED MATHEMATICS	2,145	1,975	1,787	1,573	1,473	1,656	2,242	-4.2	35.4	.6
STATISTICS	81	55	50	33	34	44	53	-9.7	20.5	-5.9
LIFE SCIENCES	7,221	8,246	9,316	9,814	9,010	9,129	8,804	4.0	-3.6	2.9
AGRICULTURAL SCIENCES	476	522	522	809	637	669	659	5.8	-1.5	4.8
BIOLOGICAL SCIENCES	4,510	5,077	5,386	4,966	4,405	4,167	3,623	-1.3	-13.1	-3.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	52	53	52	57	17	0	0	-100.0	**	-100.0
BIOLOGY	3,854	4,369	4,612	4,121	3,534	3,539	3,059	-1.4	-13.6	-3.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	71	95	39	17	15	14	14	-23.7	.0	-20.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	10	13	13	8	**	-38.5	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	113	129	146	118	129	109	85	-.6	-22.0	-4.0
NUTRITION	116	123	221	244	246	194	190	8.9	-2.1	7.3
PATHOLOGY	261	254	236	319	380	220	188	-2.8	-14.5	-4.6
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	42	51	39	28	30	22	13	-10.2	-40.9	-15.4
BIOSCIENCES, N.E.C.	1	3	41	52	41	56	66	95.6	17.9	81.9
HEALTH SCIENCES	2,235	2,647	3,408	4,039	3,968	4,293	4,522	11.5	5.3	10.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	316	363	616	869	690	1,007	1,096	21.3	8.8	19.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	10	15	15	15	12	**	-20.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	58	61	99	129	90	96	101	8.8	5.2	8.2
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	996	1,212	1,435	1,497	1,587	1,788	1,686	10.2	-5.7	7.8
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	47	161	215	225	193	191	**	-1.0	**
HEALTH RELATED, N.E.C.	865	964	1,087	1,314	1,361	1,194	1,436	5.5	20.3	7.5
PSYCHOLOGY	6,466	6,462	7,299	7,800	6,968	7,291	6,449	2.0	-11.5	*
SOCIAL SCIENCES	8,619	8,976	10,342	10,239	8,625	8,739	8,534	.2	-2.3	-.1
AGRICULTURAL ECONOMICS	15	17	21	23	42	27	44	10.3	63.0	16.6
ANTHROPOLOGY	401	411	535	425	395	309	260	-4.3	-15.9	-6.0
ECONOMICS (EXCEPT AGRICULTURAL)	798	713	751	594	528	557	657	-5.8	18.0	-2.7
GEOGRAPHY	648	715	566	457	479	449	467	-5.9	4.0	-4.6
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	195	209	137	137	135	129	129	-6.7	.0	-5.7
POLITICAL SCIENCE	3,346	3,974	4,339	4,315	4,137	4,398	4,053	4.7	-7.8	2.8
SOCIOLOGY	790	753	852	658	547	657	589	-3.0	-10.4	-4.1
SOCIOLOGY/ANTHROPOLOGY	132	117	119	86	99	77	56	-8.6	-27.3	-11.5
SOCIAL SCIENCES, N.E.C.	2,294	2,067	3,022	3,544	2,263	2,136	2,279	-1.2	6.7	-.1

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-3. — SCIENCE/ENGINEERING GRADUATE STUDENTS
IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	14,115	14,660	16,626	16,488	16,781	16,702	17,450	2.8	4.5	3.1
ENGINEERING	1,757	1,557	1,955	2,051	2,051	2,344	2,498	4.9	6.6	5.2
AEROSPACE	10	9	14	5	7	7	8	-5.8	14.3	-3.1
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	22	18	30	10	10	10	18	-12.3	80.0	-2.8
CHEMICAL	65	79	57	85	99	112	113	9.5	.9	8.2
CIVIL	119	128	159	164	188	191	199	8.2	4.2	7.6
ELECTRICAL	442	421	538	533	535	623	676	5.9	8.5	6.3
ENGINEERING SCIENCE	43	37	110	158	155	206	278	29.8	35.0	30.6
INDUSTRIAL	474	433	541	449	405	453	434	-.8	-4.2	-1.3
MECHANICAL	321	251	294	430	444	404	391	3.9	-3.2	2.9
METALLURGICAL/MATERIALS	21	17	21	32	33	50	59	15.6	18.0	15.9
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	25	12	19	4	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	215	152	172	181	175	288	322	5.0	11.8	5.9
PHYSICAL SCIENCES	507	472	513	486	375	348	373	-6.1	7.2	-4.3
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	393	367	378	335	313	303	327	-4.2	7.9	-2.6
PHYSICS	88	85	108	72	62	44	46	-10.9	4.5	-8.9
PHYSICAL SCIENCES, N.E.C.	26	20	27	79	0	1	0	-41.9	-100.0	-100.0
ENVIRONMENTAL SCIENCES	44	43	82	92	109	199	137	28.6	-31.2	17.6
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	4	3	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	40	40	82	92	109	199	137	30.7	-31.2	19.2
MATHEMATICAL/COMPUTER SCIENCES	1,221	1,275	1,445	1,344	1,378	1,676	2,015	5.4	20.2	7.4
COMPUTER SCIENCE	920	964	1,107	1,061	1,130	1,455	1,812	7.9	24.5	10.2
MATHEMATICS AND APPLIED MATHEMATICS	194	167	180	115	125	136	113	-5.7	-16.9	-7.4
STATISTICS	107	144	158	168	123	85	90	-3.8	5.9	-2.4
LIFE SCIENCES	2,402	2,449	2,812	2,551	2,771	3,021	3,370	3.9	11.6	5.0
AGRICULTURAL SCIENCES	30	31	51	23	24	52	64	9.6	23.1	11.4
BIOLOGICAL SCIENCES	1,127	1,125	1,231	1,193	1,062	931	944	-3.1	1.4	-2.5
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	85	90	65	53	45	39	34	-12.2	-12.8	-12.3
BIOLOGY	783	772	766	835	703	531	547	-6.3	3.0	-5.0
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	2	2	5	9	7	8	10	26.0	25.0	25.8
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	38	40	25	**	-37.5	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	53	51	52	48	52	50	50	-1.0	.0	-.8
MICROBIOLOGY	66	89	139	69	73	77	60	2.6	-22.1	-1.4
NUTRITION	0	0	0	0	26	40	66	**	65.0	**
PATHOLOGY	13	9	23	11	15	18	22	5.6	22.2	7.8
PHARMACOLOGY	0	0	3	8	10	11	11	**	.0	**
PHYSIOLOGY	63	58	64	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	8	8	7	9	6	19	19	15.5	.0	13.2
BIOSCIENCES, N.E.C.	54	46	107	98	87	98	100	10.4	2.0	9.2
HEALTH SCIENCES	1,245	1,293	1,530	1,335	1,685	2,038	2,362	8.6	15.9	9.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	21	33	56	**	69.7	**
DENTISTRY	24	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	29	29	14	14	**	.0	**
NURSING	222	270	340	326	437	625	861	18.8	37.8	21.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	18	14	11	11	11	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	230	259	306	338	280	263	233	2.3	-11.4	.2
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	22	28	21	15	15	23	25	.7	8.7	1.8
CLINICAL MEDICINE, N.E.C.	7	15	16	25	171	168	179	69.8	6.5	58.9
HEALTH RELATED, N.E.C.	740	700	803	588	721	901	983	3.3	9.1	4.1
PSYCHOLOGY	2,812	2,917	3,271	4,013	4,244	4,325	4,683	7.4	8.3	7.6
SOCIAL SCIENCES	5,372	5,947	6,548	5,951	5,853	4,789	4,374	-1.9	-8.7	-2.9
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	5	5	5	7	4	4	0	-3.7	-100.0	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	260	224	197	250	373	380	431	6.5	13.4	7.5
GEOGRAPHY	3	2	11	5	2	2	1	-6.5	-50.0	-14.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	95	98	136	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	2,433	2,296	3,114	2,964	2,749	2,387	2,098	-.3	-12.1	-2.1
SOCIOLOGY	265	298	239	299	228	112	76	-13.4	-32.1	-16.3
SOCIOLOGY/ANTHROPOLOGY	14	15	13	12	12	12	35	-2.5	191.7	14.0
SOCIAL SCIENCES, N.E.C.	2,297	3,009	2,833	2,414	2,485	1,892	1,733	-3.2	-8.4	-3.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-4. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-82

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	43,772	45,960	51,754	52,618	49,219	51,480	52,268	2.7	1.5	2.6
NEW ENGLAND	3,261	2,982	4,170	4,909	5,254	4,303	4,730	4.7	9.9	5.5
CONNECTICUT	1,505	1,404	2,058	2,766	2,879	2,597	3,079	9.5	18.6	10.8
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	1,025	857	1,348	1,380	1,579	1,533	1,407	6.9	-8.2	4.6
NEW HAMPSHIRE	79	67	52	43	67	38	57	-11.5	50.0	-4.6
RHODE ISLAND	65	58	78	112	123	129	182	12.1	41.1	15.8
VERMONT	587	596	634	608	606	6	5	-53.4	-16.7	-49.4
MIDDLE ATLANTIC	9,812	9,933	10,551	9,187	7,089	8,082	8,532	-3.2	5.6	-2.0
NEW JERSEY	3,245	3,041	2,982	1,465	1,060	1,129	1,050	-16.1	-7.0	-14.9
NEW YORK	5,068	4,872	5,443	5,502	3,983	4,630	5,104	-1.5	10.2	.1
PENNSYLVANIA	1,499	2,020	2,126	2,220	2,046	2,323	2,378	7.6	2.4	6.8
EAST NORTH CENTRAL	6,246	6,115	5,819	5,722	6,346	6,545	6,996	.8	6.9	1.6
ILLINOIS	3,705	3,640	3,406	3,406	3,447	3,399	3,538	-1.4	4.1	-.7
INDIANA	266	275	424	393	390	397	478	6.9	20.4	8.7
MICHIGAN	850	780	486	471	608	706	635	-3.0	-10.1	-4.1
OHIO	857	833	848	859	1,120	1,147	1,214	5.0	5.8	5.1
WISCONSIN	568	587	655	593	781	896	1,131	7.9	26.2	10.3
WEST NORTH CENTRAL	1,405	1,543	1,608	1,765	1,926	1,741	1,768	3.6	1.6	3.3
IOWA	247	269	275	143	155	151	123	-7.9	-18.5	-9.5
KANSAS	531	554	580	582	682	696	595	4.6	-14.5	1.6
MINNESOTA	411	388	372	626	589	493	551	3.1	11.8	4.3
MISSOURI	208	323	367	403	479	389	489	11.0	25.7	13.0
NEBRASKA	8	9	14	11	21	12	10	7.0	-16.7	3.2
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	5,485	5,765	5,737	5,852	4,803	5,273	5,199	-.7	-1.4	-.8
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	96	104	99	94	95	108	137	2.0	26.9	5.2
FLORIDA	1,569	1,663	1,818	1,650	1,176	987	855	-7.4	-13.4	-8.3
GEORGIA	589	677	652	502	431	437	460	-4.9	5.3	-3.5
MARYLAND	1,200	1,121	1,021	1,972	1,832	1,942	1,899	8.4	-2.2	6.8
NORTH CAROLINA	687	684	774	442	655	646	743	-1.0	15.0	1.1
SOUTH CAROLINA	136	131	112	150	126	146	171	1.2	17.1	3.3
VIRGINIA	684	890	824	922	488	463	406	-6.3	-12.3	-7.2
WEST VIRGINIA	524	495	437	120	0	544	528	.6	-2.9	.1
EAST SOUTH CENTRAL	1,589	1,602	1,872	2,414	1,869	2,155	2,156	5.2	*	4.5
ALABAMA	274	288	349	573	497	502	600	10.6	19.5	11.8
KENTUCKY	450	380	590	688	641	660	623	6.6	-5.6	4.8
MISSISSIPPI	231	349	332	290	237	211	230	-1.5	9.0	-.1
TENNESSEE	634	585	601	863	494	782	703	3.6	-10.1	1.5
WEST SOUTH CENTRAL	2,827	3,549	4,020	4,674	4,249	4,373	4,845	7.5	10.8	8.0
ARKANSAS	251	398	347	423	435	478	555	11.3	16.1	12.0
LOUISIANA	328	359	331	289	278	437	484	4.9	10.8	5.7
OKLAHOMA	53	56	78	150	149	115	111	13.8	-3.5	11.1
TEXAS	2,195	2,736	3,264	3,812	3,387	3,343	3,695	7.3	10.5	7.7
MOUNTAIN	341	353	512	610	537	636	543	10.9	-14.6	6.9
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	31	31	18	33	47	49	45	7.9	-8.2	5.5
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	18	25	21	31	41	46	59	16.9	28.3	18.5
NEVADA	161	161	249	209	189	214	187	4.9	-12.6	2.2
NEW MEXICO	131	136	224	337	260	327	252	16.5	-22.9	9.8
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	12,793	14,096	17,394	17,446	17,095	18,339	17,464	6.2	-4.8	4.5
ALASKA	47	79	206	186	220	221	209	29.4	-5.4	23.8
CALIFORNIA	11,829	12,999	16,254	15,996	15,719	16,824	15,835	6.0	-5.9	4.3
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	128	149	141	130	170	283	250	14.1	-11.7	10.0
WASHINGTON	789	869	793	1,134	986	1,011	1,170	4.2	15.7	5.8
OUTLYING AREAS	13	22	71	39	51	33	35	16.8	6.1	15.2

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, ALL AREAS:	18,473	18,646	18,283	-1.9	30,746	32,834	33,985	3.5
TOTAL US CITIZENS	16,478	16,334	15,699	-3.9	-	-	32,044	**
BLACK, NON-HISPANIC	1,010	937	1,251	33.5	1,272	1,254	1,802	43.7
AMERICAN INDIAN/ALASKAN NATIVE	80	45	99	120.0	61	58	143	146.6
ASIAN/PACIFIC ISLANDER	316	332	417	25.6	584	593	872	47.0
HISPANIC	359	376	445	18.4	560	568	847	49.1
WHITE, NON-HISPANIC	8,641	8,407	11,001	30.9	15,429	15,595	22,767	46.0
OTHER OR UNKNOWN	6,072	6,237	2,486	-60.1	-	-	5,613	**
FOREIGN	1,995	2,312	2,584	11.8	-	-	1,941	**
TOTAL, ENGINEERING:	1,126	1,295	1,470	13.5	3,750	4,653	4,857	4.4
TOTAL US CITIZENS	663	752	880	17.0	-	-	4,320	**
BLACK, NON-HISPANIC	36	25	43	72.0	60	68	114	67.6
AMERICAN INDIAN/ALASKAN NATIVE	0	0	5	**	0	1	18	1700.0
ASIAN/PACIFIC ISLANDER	22	50	80	60.0	187	172	243	41.3
HISPANIC	10	8	25	212.5	84	58	75	29.3
WHITE, NON-HISPANIC	262	308	490	59.1	1,348	1,584	2,814	77.7
OTHER OR UNKNOWN	333	361	237	-34.3	-	-	1,056	**
FOREIGN	463	543	590	8.7	-	-	537	**
TOTAL, PHYSICAL SCIENCES:	656	703	706	.4	895	894	981	9.7
TOTAL US CITIZENS	501	511	521	2.0	-	-	866	**
BLACK, NON-HISPANIC	61	54	78	44.4	26	36	41	13.9
AMERICAN INDIAN/ALASKAN NATIVE	0	0	3	**	0	3	6	100.0
ASIAN/PACIFIC ISLANDER	18	33	30	-9.1	32	25	39	56.0
HISPANIC	14	7	11	57.1	16	9	23	155.6
WHITE, NON-HISPANIC	280	285	325	14.0	480	403	623	54.6
OTHER OR UNKNOWN	128	132	74	-43.9	-	-	134	**
FOREIGN	155	192	185	-3.6	-	-	115	**
TOTAL, ENVIRONMENTAL SCIENCES:	704	631	584	-7.4	709	812	863	6.3
TOTAL US CITIZENS	640	576	539	-6.4	-	-	836	**
BLACK, NON-HISPANIC	12	18	15	-16.7	20	11	13	18.2
AMERICAN INDIAN/ALASKAN NATIVE	2	1	3	200.0	0	0	3	**
ASIAN/PACIFIC ISLANDER	8	1	9	800.0	9	10	24	140.0
HISPANIC	4	10	18	80.0	12	3	15	400.0
WHITE, NON-HISPANIC	353	325	412	26.8	443	408	628	53.9
OTHER OR UNKNOWN	261	221	82	-62.9	-	-	153	**
FOREIGN	64	55	45	-18.2	-	-	27	**
TOTAL, MATHEMATICAL/COMPUTER SCIENCES:	1,203	1,445	1,869	29.3	2,705	3,753	4,724	25.9
TOTAL US CITIZENS	920	978	1,317	34.7	-	-	4,263	**
BLACK, NON-HISPANIC	64	52	110	111.5	92	86	156	81.4
AMERICAN INDIAN/ALASKAN NATIVE	1	2	13	550.0	2	1	15	1400.0
ASIAN/PACIFIC ISLANDER	66	80	106	32.5	140	118	226	91.5
HISPANIC	23	20	30	50.0	39	67	88	31.3
WHITE, NON-HISPANIC	468	460	823	78.9	1,209	1,273	3,137	146.4
OTHER OR UNKNOWN	298	364	235	-35.4	-	-	641	**
FOREIGN	283	467	552	18.2	-	-	461	**

CONTINUED ON NEXT PAGE

TABLE D-5. -- SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY AREA, CITIZENSHIP, RACIAL/ETHNIC BACKGROUND, AND ENROLLMENT STATUS: 1980-82

- CONTINUED

AREA, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND	FULL TIME				PART TIME 1/			
	NUMBER			PERCENT CHANGE, 1981-82	NUMBER			PERCENT CHANGE, 1981-82
	1980	1981	1982		1980	1981	1982	
TOTAL, AGRICULTURAL SCIENCES:	366	418	375	-10.3	295	303	348	14.9
TOTAL US CITIZENS	293	330	255	-22.7	-	-	323	**
BLACK, NON-HISPANIC	7	4	18	350.0	6	23	4	-82.6
AMERICAN INDIAN/ALASKAN NATIVE	1	1	1	.0	0	1	2	100.0
ASIAN/PACIFIC ISLANDER	0	0	3	**	1	10	2	-80.0
HISPANIC	4	2	5	150.0	3	2	8	300.0
WHITE, NON-HISPANIC	115	168	176	4.8	148	103	288	179.6
OTHER OR UNKNOWN	166	155	52	-66.5	-	-	19	**
FOREIGN	73	88	120	36.4	-	-	25	**
TOTAL, BIOLOGICAL SCIENCES:	2,257	2,264	1,812	-20.0	3,210	2,834	2,755	-2.8
TOTAL US CITIZENS	2,018	2,039	1,636	-19.8	-	-	2,635	**
BLACK, NON-HISPANIC	181	137	151	10.2	124	109	151	38.5
AMERICAN INDIAN/ALASKAN NATIVE	6	3	9	200.0	20	3	14	366.7
ASIAN/PACIFIC ISLANDER	77	33	30	-9.1	43	44	63	43.2
HISPANIC	27	37	34	-8.1	58	45	68	51.1
WHITE, NON-HISPANIC	1,192	1,012	1,279	26.4	2,058	1,633	1,970	20.6
OTHER OR UNKNOWN	535	817	133	-83.7	-	-	369	**
FOREIGN	239	225	176	-21.8	-	-	120	**
TOTAL, HEALTH SCIENCES:	2,017	2,307	2,395	3.8	3,636	4,024	4,489	11.6
TOTAL US CITIZENS	1,958	2,251	2,247	-.2	-	-	4,353	**
BLACK, NON-HISPANIC	98	94	128	36.2	183	191	229	19.9
AMERICAN INDIAN/ALASKAN NATIVE	2	5	11	120.0	12	11	15	36.4
ASIAN/PACIFIC ISLANDER	19	34	27	-20.6	32	73	63	-13.7
HISPANIC	51	69	49	-29.0	91	70	91	30.0
WHITE, NON-HISPANIC	1,223	1,223	1,761	44.0	2,364	2,479	3,366	35.8
OTHER OR UNKNOWN	565	826	271	-67.2	-	-	589	**
FOREIGN	59	56	148	164.3	-	-	136	**
TOTAL, PSYCHOLOGY:	5,099	5,168	4,739	-8.3	6,113	6,448	6,393	-.9
TOTAL US CITIZENS	4,944	4,996	4,543	-9.1	-	-	6,295	**
BLACK, NON-HISPANIC	187	194	229	18.0	206	204	297	45.6
AMERICAN INDIAN/ALASKAN NATIVE	41	15	22	46.7	11	17	31	82.4
ASIAN/PACIFIC ISLANDER	54	37	45	21.6	29	35	44	25.7
HISPANIC	120	80	94	17.5	111	85	138	62.4
WHITE, NON-HISPANIC	2,842	2,931	3,632	23.9	2,882	3,499	4,796	37.1
OTHER OR UNKNOWN	1,700	1,739	521	-70.0	-	-	989	**
FOREIGN	155	172	196	14.0	-	-	98	**
TOTAL, SOCIAL SCIENCES:	5,045	4,415	4,333	-1.9	9,433	9,113	8,575	-5.9
TOTAL US CITIZENS	4,541	3,901	3,761	-3.6	-	-	8,153	**
BLACK, NON-HISPANIC	364	359	479	33.4	555	526	797	51.5
AMERICAN INDIAN/ALASKAN NATIVE	27	18	32	77.8	16	21	39	85.7
ASIAN/PACIFIC ISLANDER	52	64	87	35.9	111	106	168	58.5
HISPANIC	106	143	179	25.2	146	229	341	48.9
WHITE, NON-HISPANIC	1,906	1,695	2,103	24.1	4,497	4,213	5,145	22.1
OTHER OR UNKNOWN	2,086	1,622	881	-45.7	-	-	1,663	**
FOREIGN	504	514	572	11.3	-	-	422	**

1/ FOR PART TIME STUDENTS, DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED PRIOR TO 1982.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-6. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	16,335	16,759	18,711	18,970	18,473	18,646	18,283	2.2	-1.9	1.6
ENGINEERING	730	733	890	1,049	1,126	1,295	1,470	10.0	13.5	10.5
AEROSPACE	20	12	9	1	3	3	3	-27.1	.0	-23.7
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	1	2	0	19	17	14	23	55.2	64.3	56.5
CHEMICAL	33	34	30	51	50	53	62	8.2	17.0	9.4
CIVIL	137	147	222	271	228	308	296	14.5	-3.9	11.6
ELECTRICAL	92	84	192	188	251	256	240	18.6	-6.3	14.7
ENGINEERING SCIENCE	3	5	9	8	17	16	25	32.2	56.3	35.4
INDUSTRIAL	109	103	131	117	196	210	241	11.5	14.8	12.0
MECHANICAL	77	58	108	91	111	85	140	1.7	64.7	8.9
METALLURGICAL/MATERIALS	7	7	10	15	18	18	25	17.0	38.9	19.9
MINING	5	11	7	6	7	17	22	22.6	29.4	23.6
NUCLEAR	6	0	5	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	1	3	3	6	**	100.0	**
ENGINEERING, N.E.C.	240	270	167	281	225	312	387	4.5	24.0	7.1
PHYSICAL SCIENCES	642	671	767	744	656	703	706	1.5	.4	1.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	402	427	554	519	499	551	541	5.4	-1.8	4.3
PHYSICS	188	189	159	184	131	121	125	-7.1	3.3	-5.7
PHYSICAL SCIENCES, N.E.C.	52	55	54	41	26	31	40	-8.3	29.0	-3.7
ENVIRONMENTAL SCIENCES	688	542	528	547	704	631	584	-1.4	-7.4	-2.3
ATMOSPHERIC SCIENCES	0	0	4	3	12	6	8	**	33.3	**
GEOSCIENCES	166	176	181	210	258	184	236	1.7	28.3	5.2
OCEANOGRAPHY	27	35	31	23	38	33	42	3.4	27.3	6.5
ENVIRONMENTAL SCIENCES, N.E.C.	495	331	312	311	396	408	298	-3.2	-27.0	-7.0
MATHEMATICAL/COMPUTER SCIENCES	1,043	1,136	959	1,312	1,203	1,445	1,869	5.6	29.3	8.7
COMPUTER SCIENCE	387	465	408	775	662	970	1,197	16.5	23.4	17.5
MATHEMATICS AND APPLIED MATHEMATICS	622	648	535	525	535	471	657	-4.5	39.5	.8
STATISTICS	34	23	16	12	6	4	15	-30.0	275.0	-11.0
LIFE SCIENCES	3,878	4,332	4,525	4,679	4,640	4,989	4,582	4.3	-8.2	2.4
AGRICULTURAL SCIENCES	246	277	271	455	366	418	375	9.2	-10.3	6.2
BIOLOGICAL SCIENCES	2,252	2,575	2,478	2,526	2,257	2,264	1,812	.1	-20.0	-3.1
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	33	46	33	49	32	19	18	-8.8	-5.3	-8.3
BIOLOGY	1,760	2,091	1,958	2,082	1,719	1,762	1,460	*	-17.1	-2.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	51	75	38	18	14	13	13	-20.4	.0	-17.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	10	10	8	5	**	-37.5	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	24	32	38	43	48	47	47	11.9	.0	10.1
MICROBIOLOGY	31	83	119	23	63	51	24	8.7	-52.9	-3.6
NUTRITION	78	66	109	75	109	94	94	3.2	.0	2.7
PATHOLOGY	216	115	108	178	203	195	72	-1.7	-63.1	-14.5
PHARMACOLOGY	0	0	1	2	2	1	1	**	.0	**
PHYSIOLOGY	12	5	15	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	41	51	42	29	36	21	18	-10.6	-14.3	-11.1
BIOSCIENCES, N.E.C.	6	11	17	17	21	53	60	43.8	13.2	38.9
HEALTH SCIENCES	1,380	1,480	1,776	1,698	2,017	2,307	2,395	8.9	3.8	8.2
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	18	25	25	**	.0	**
DENTISTRY	24	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	22	22	14	14	**	.0	**
NURSING	190	196	328	195	243	402	430	13.3	7.0	12.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	12	19	15	16	13	**	-18.8	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	21	20	33	25	30	28	8.9	-6.7	6.5
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	535	617	783	777	878	963	956	10.3	-.7	8.6
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	12	21	16	12	12	22	22	10.6	.0	9.0
CLINICAL MEDICINE, N.E.C.	0	4	37	37	71	62	69	**	11.3	**
HEALTH RELATED, N.E.C.	601	600	554	603	733	773	838	4.3	8.4	4.9
PSYCHOLOGY	4,399	4,167	4,444	5,128	5,099	5,168	4,739	2.7	-8.3	1.1
SOCIAL SCIENCES	4,955	5,178	6,598	5,511	5,045	4,415	4,333	-1.9	-1.9	-1.9
AGRICULTURAL ECONOMICS	12	13	18	18	35	23	22	11.5	-4.3	9.0
ANTHROPOLOGY	153	143	168	127	140	79	78	-10.4	-1.3	-9.2
ECONOMICS (EXCEPT AGRICULTURAL)	358	376	344	236	326	298	397	-3.0	33.2	1.5
GEOGRAPHY	235	241	196	184	198	187	166	-3.7	-11.2	-4.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	57	50	39	21	26	14	12	-20.9	-14.3	-20.0
POLITICAL SCIENCE	1,511	1,592	2,044	1,620	1,560	1,621	1,595	1.2	-1.6	.8
SOCIOLOGY	387	465	439	468	339	299	242	-4.2	-19.1	-6.5
SOCIOLOGY/ANTHROPOLOGY	109	108	80	55	56	51	45	-11.9	-11.8	-11.9
SOCIAL SCIENCES, N.E.C.	2,133	2,190	3,270	2,782	2,365	1,843	1,776	-2.4	-3.6	-2.6

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-7. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	10,916	11,306	12,414	13,006	12,439	12,837	12,108	2.7	-5.7	1.5
ENGINEERING	433	512	572	680	674	801	922	10.8	15.1	11.4
AEROSPACE	15	6	2	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	17	17	14	19	**	35.7	**
CHEMICAL	10	9	10	15	7	7	13	-5.8	85.7	3.8
CIVIL	95	115	188	225	154	231	212	16.0	-8.2	12.2
ELECTRICAL	37	33	85	81	139	141	120	25.0	-14.9	18.3
ENGINEERING SCIENCE	3	2	6	5	7	5	11	8.9	120.0	20.4
INDUSTRIAL	52	45	61	40	119	137	172	17.5	25.5	18.6
MECHANICAL	25	27	62	41	34	31	86	3.7	177.4	19.3
METALLURGICAL/MATERIALS	7	7	10	14	18	18	25	17.0	38.9	19.9
MINING	5	11	7	6	7	17	22	22.6	29.4	23.6
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	1	3	3	6	**	100.0	**
ENGINEERING, N.E.C.	184	257	141	235	169	197	236	1.1	19.8	3.6
PHYSICAL SCIENCES	515	560	605	572	535	580	600	2.0	3.4	2.2
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	307	349	432	385	396	444	449	6.3	1.1	5.6
PHYSICS	157	157	125	150	113	106	111	-6.3	4.7	-4.8
PHYSICAL SCIENCES, N.E.C.	51	54	48	37	26	30	40	-8.5	33.3	-3.4
ENVIRONMENTAL SCIENCES	663	516	491	505	641	489	492	-4.9	.6	-4.2
ATMOSPHERIC SCIENCES	0	0	4	3	12	6	8	**	33.3	**
GEOSCIENCES	163	174	181	210	258	184	236	2.0	28.3	5.4
OCEANOGRAPHY	27	35	31	23	38	33	42	3.4	27.3	6.5
ENVIRONMENTAL SCIENCES, N.E.C.	473	307	275	269	333	266	206	-9.1	-22.6	-11.2
MATHEMATICAL/COMPUTER SCIENCES	758	800	696	873	797	923	1,247	3.3	35.1	7.4
COMPUTER SCIENCE	162	192	208	376	294	478	595	19.8	24.5	20.4
MATHEMATICS AND APPLIED MATHEMATICS	562	587	474	486	497	441	638	-4.0	44.7	1.8
STATISTICS	34	21	14	11	6	4	14	-30.0	250.0	-11.9
LIFE SCIENCES	2,940	3,333	3,436	3,794	3,720	3,833	3,410	4.5	-11.0	2.1
AGRICULTURAL SCIENCES	216	246	239	432	342	366	312	9.2	-14.8	5.4
BIOLOGICAL SCIENCES	1,923	2,194	2,112	2,207	2,013	2,009	1,533	.7	-23.7	-3.2
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	17	24	19	21	11	0	0	-100.0	**	-100.0
BIOLOGY	1,506	1,824	1,754	1,858	1,573	1,626	1,308	1.3	-19.6	-2.0
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	50	74	37	17	13	12	11	-21.2	-8.3	-19.5
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	10	10	7	5	**	-28.6	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	23	44	46	19	56	46	13	12.2	-71.7	-7.8
NUTRITION	78	66	109	75	106	93	93	3.0	.0	2.5
PATHOLOGY	214	114	104	178	201	193	66	-1.7	-65.8	-15.5
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	34	45	36	24	30	16	13	-11.8	-18.8	-12.8
BIOSCIENCES, N.E.C.	1	3	7	5	13	16	24	58.7	50.0	57.5
HEALTH SCIENCES	801	893	1,085	1,155	1,365	1,458	1,565	10.5	7.3	10.0
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	80	68	148	131	130	204	205	16.9	.5	14.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	10	15	15	15	12	**	-20.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	18	21	20	33	25	30	28	8.9	-6.7	6.5
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	391	450	601	594	695	811	808	12.9	-.4	10.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	4	37	36	40	33	40	**	21.2	**
HEALTH RELATED, N.E.C.	312	350	269	346	460	365	472	2.6	29.3	6.1
PSYCHOLOGY	3,042	2,838	3,056	3,227	3,248	3,420	2,683	2.0	-21.5	-1.8
SOCIAL SCIENCES	2,565	2,747	3,558	3,355	2,824	2,791	2,754	1.4	-1.3	1.0
AGRICULTURAL ECONOMICS	12	13	18	18	35	23	22	11.5	-4.3	9.0
ANTHROPOLOGY	151	142	166	126	140	78	78	-10.4	.0	-9.0
ECONOMICS (EXCEPT AGRICULTURAL)	272	237	285	182	200	183	286	-6.4	56.3	.7
GEOGRAPHY	235	241	196	184	198	187	166	-3.7	-11.2	-4.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	55	48	36	21	26	14	12	-20.4	-14.3	-19.5
POLITICAL SCIENCE	837	991	1,190	897	971	1,080	965	4.3	-10.6	2.1
SOCIOLOGY	247	283	307	301	218	283	236	2.3	-16.6	-.6
SOCIOLOGY/ANTHROPOLOGY	95	93	68	43	45	40	33	-13.4	-17.5	-14.0
SOCIAL SCIENCES, N.E.C.	661	649	1,292	1,583	991	903	956	5.3	5.9	5.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-8. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	5,419	5,453	6,297	5,964	6,034	5,809	6,175	1.2	6.3	1.9
ENGINEERING	297	221	318	369	452	494	548	8.9	10.9	9.1
AEROSPACE	5	6	7	1	3	3	3	-8.2	.0	-7.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	1	2	0	2	0	0	4	-100.0	**	21.9
CHEMICAL	23	25	20	36	43	46	49	12.2	6.5	11.4
CIVIL	42	32	34	46	74	77	84	10.6	9.1	10.4
ELECTRICAL	55	51	107	107	112	115	120	13.1	4.3	11.8
ENGINEERING SCIENCE	0	3	3	3	10	11	14	**	27.3	**
INDUSTRIAL	57	58	70	77	77	73	69	4.2	-5.5	2.8
MECHANICAL	52	31	46	50	77	54	54	.6	.0	.5
METALLURGICAL/MATERIALS	0	0	0	1	0	0	0	**	**	**
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	6	0	5	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	56	13	26	46	56	115	151	12.7	31.3	15.2
PHYSICAL SCIENCES	127	111	162	172	121	123	106	-.5	-13.8	-2.5
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	95	78	122	134	103	107	92	2.0	-14.0	-.5
PHYSICS	31	32	34	34	18	15	14	-11.4	-6.7	-10.7
PHYSICAL SCIENCES, N.E.C.	1	1	6	4	0	1	0	.0	-100.0	-100.0
ENVIRONMENTAL SCIENCES	25	26	37	42	63	142	92	33.6	-35.2	20.5
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	3	2	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	22	24	37	42	63	142	92	36.5	-35.2	22.7
MATHEMATICAL/COMPUTER SCIENCES	285	336	263	439	406	522	622	10.6	19.2	11.8
COMPUTER SCIENCE	225	273	200	399	368	492	602	13.9	22.4	15.1
MATHEMATICS AND APPLIED MATHEMATICS	60	61	61	39	38	30	19	-10.9	-36.7	-15.1
STATISTICS	0	2	2	1	0	0	1	**	**	**
LIFE SCIENCES	938	999	1,089	885	920	1,156	1,172	3.5	1.4	3.2
AGRICULTURAL SCIENCES	30	31	32	23	24	52	63	9.6	21.2	11.2
BIOLOGICAL SCIENCES	329	381	366	319	244	255	279	-4.2	9.4	-2.3
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	16	22	14	28	21	19	18	2.9	-5.3	1.7
BIOLOGY	254	267	204	224	146	136	152	-9.9	11.8	-7.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	1	1	1	1	1	1	2	.0	100.0	10.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	1	0	**	-100.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	24	32	38	43	48	47	47	11.9	.0	10.1
MICROBIOLOGY	8	39	73	4	7	5	11	-7.5	120.0	4.7
NUTRITION	0	0	0	0	3	1	1	**	.0	**
PATHOLOGY	2	1	4	0	2	2	6	.0	200.0	17.0
PHARMACOLOGY	0	0	1	2	2	1	1	**	.0	**
PHYSIOLOGY	12	5	15	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	7	6	6	5	6	5	5	-5.5	.0	-4.7
BIOSCIENCES, N.E.C.	5	8	10	12	8	37	36	39.6	-2.7	32.6
HEALTH SCIENCES	579	587	691	543	652	849	830	6.6	-2.2	5.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	18	25	25	**	.0	**
DENTISTRY	24	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	22	22	14	14	**	.0	**
NURSING	110	128	180	64	113	198	225	10.3	13.6	10.8
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	2	4	0	1	1	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	144	167	182	183	183	152	148	.9	-2.6	.4
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	12	21	16	12	12	22	22	10.6	.0	9.0
CLINICAL MEDICINE, N.E.C.	0	0	0	1	31	29	29	**	.0	**
HEALTH RELATED, N.E.C.	289	250	285	257	273	408	366	5.9	-10.3	3.4
PSYCHOLOGY	1,357	1,329	1,388	1,901	1,851	1,748	2,056	4.3	17.6	6.1
SOCIAL SCIENCES	2,390	2,431	3,040	2,156	2,221	1,624	1,579	-6.2	-2.8	-5.7
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	2	1	2	1	0	1	0	-10.9	-100.0	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	86	89	59	54	126	115	111	5.0	-3.5	3.7
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	2	2	3	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	674	601	854	723	589	541	630	-3.6	16.5	-1.0
SOCIOLOGY	140	182	132	167	121	16	6	-30.3	-62.5	-36.2
SOCIOLOGY/ANTHROPOLOGY	14	15	12	12	11	11	12	-3.9	9.1	-2.2
SOCIAL SCIENCES, N.E.C.	1,472	1,541	1,978	1,199	1,374	940	820	-7.2	-12.8	-8.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-9. — MALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	10,667	11,311	11,175	10,091	9,698	9,559	-1.9	-1.4	-1.8
ENGINEERING	692	835	949	1,040	1,188	1,322	11.4	11.3	11.4
AEROSPACE	12	9	1	3	3	3	-24.2	.0	-20.6
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	19	15	13	17	45.4	30.8	42.9
CHEMICAL	33	27	46	48	48	52	7.8	8.3	7.9
CIVIL	126	193	228	205	289	266	18.1	-8.0	13.3
ELECTRICAL	82	187	184	242	243	226	24.3	-7.0	18.4
ENGINEERING SCIENCE	5	9	8	15	15	21	24.6	40.0	27.0
INDUSTRIAL	102	128	103	173	185	209	12.6	13.0	12.7
MECHANICAL	55	104	88	109	81	131	8.0	61.7	15.6
METALLURGICAL/MATERIALS	5	8	14	17	15	22	24.6	46.7	28.0
MINING	10	7	6	6	15	20	8.4	33.3	12.2
NUCLEAR	0	5	0	0	0	0	**	**	**
PETROLEUM	0	0	1	3	3	6	**	100.0	**
ENGINEERING, N.E.C.	260	158	251	204	278	349	1.3	25.5	5.0
PHYSICAL SCIENCES	538	604	581	486	517	509	-.8	-1.5	-.9
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	331	431	399	352	386	372	3.1	-3.6	2.0
PHYSICS	168	131	151	113	108	108	-8.5	.0	-7.1
PHYSICAL SCIENCES, N.E.C.	39	42	31	21	23	29	-10.0	26.1	-4.8
ENVIRONMENTAL SCIENCES	426	432	443	521	442	414	.7	-6.3	-.5
ATMOSPHERIC SCIENCES	0	3	2	12	6	6	**	.0	**
GEOSCIENCES	151	160	181	190	136	191	-2.1	40.4	4.0
OCEANOGRAPHY	24	20	14	26	33	19	6.6	-42.4	-3.8
ENVIRONMENTAL SCIENCES, N.E.C.	251	249	246	293	267	198	1.2	-25.8	-3.9
MATHEMATICAL/COMPUTER SCIENCES	825	727	998	871	1,003	1,304	4.0	30.0	7.9
COMPUTER SCIENCE	383	325	636	500	711	877	13.2	23.3	14.8
MATHEMATICS AND APPLIED MATHEMATICS	423	390	351	366	289	419	-7.3	45.0	-.2
STATISTICS	19	12	11	5	3	8	-30.9	166.7	-13.4
LIFE SCIENCES	2,505	2,504	2,587	2,230	2,233	1,866	-2.3	-16.4	-4.8
AGRICULTURAL SCIENCES	225	227	413	321	315	286	7.0	-9.2	4.1
BIOLOGICAL SCIENCES	1,739	1,665	1,626	1,375	1,341	1,014	-5.1	-24.4	-8.6
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	32	27	37	21	0	16	-100.0	**	-10.9
BIOLOGY	1,473	1,381	1,394	1,150	1,147	855	-4.9	-25.5	-8.7
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	47	29	18	10	7	10	-31.7	42.9	-22.7
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	7	8	3	4	**	33.3	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	5	2	0	4	3	4	-9.7	33.3	-3.7
MICROBIOLOGY	64	95	13	35	12	12	-28.5	.0	-24.3
NUTRITION	24	27	18	36	40	29	10.8	-27.5	3.2
PATHOLOGY	55	47	101	81	84	33	8.8	-60.7	-8.2
PHARMACOLOGY	0	1	2	1	1	1	**	0	**
PHYSIOLOGY	5	15	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	31	32	24	19	15	14	-12.5	-6.7	-12.4
BIOSCIENCES, N.E.C.	3	9	12	10	29	36	57.4	24.1	51.3
HEALTH SCIENCES	541	612	548	534	577	566	1.3	-1.9	.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	11	12	14	**	16.7	**
DENTISTRY	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	18	18	6	6	**	.0	**
NURSING	32	46	11	9	28	29	-2.6	3.6	-1.6
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	9	14	10	16	9	**	-43.8	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	7	10	15	8	6	5	-3.0	-16.7	-5.5
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	89	149	105	84	109	81	4.1	-25.7	-1.6
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	15	11	9	12	15	13	.0	-13.3	-2.4
CLINICAL MEDICINE, N.E.C.	2	15	12	21	21	19	60.0	-9.5	45.5
HEALTH RELATED, N.E.C.	375	346	364	361	364	390	-.6	7.1	.7
PSYCHOLOGY	2,391	2,347	2,668	2,157	1,889	1,687	-4.6	-10.7	-5.6
SOCIAL SCIENCES	3,290	3,862	2,949	2,786	2,426	2,457	-5.9	1.3	-4.7
AGRICULTURAL ECONOMICS	13	17	15	30	18	18	6.7	.0	5.6
ANTHROPOLOGY	89	90	62	76	42	42	-13.9	.0	-11.8
ECONOMICS (EXCEPT AGRICULTURAL)	311	282	187	256	230	303	-5.9	31.7	-.4
GEOGRAPHY	183	147	120	145	133	119	-6.2	-10.5	-6.9
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	26	23	15	12	7	4	-23.1	-42.9	-26.8
POLITICAL SCIENCE	1,151	1,549	1,079	1,045	1,010	1,049	-2.6	3.9	-1.5
SOCIOLOGY	265	253	232	135	137	94	-12.4	-31.4	-15.9
SOCIOLOGY/ANTHROPOLOGY	64	46	30	23	22	26	-19.2	18.2	-13.9
SOCIAL SCIENCES, N.E.C.	1,188	1,455	1,209	1,064	827	802	-7.0	-3.0	-6.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-10. — FEMALE FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	6,092	7,400	7,795	8,382	8,948	8,724	8.0	-2.5	6.2
ENGINEERING	41	55	100	86	107	148	21.1	38.3	23.9
AEROSPACE	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	2	1	6	**	500.0	**
CHEMICAL	1	3	5	2	5	10	38.0	100.0	46.8
CIVIL	21	29	43	23	19	30	-2.0	57.9	6.1
ELECTRICAL	2	5	4	9	13	14	45.4	7.7	38.3
ENGINEERING SCIENCE	0	0	0	2	1	4	**	300.0	**
INDUSTRIAL	1	3	14	23	25	32	90.4	28.0	78.2
MECHANICAL	3	4	3	2	4	9	5.9	125.0	20.1
METALLURGICAL/MATERIALS	2	2	1	1	3	3	8.4	.0	7.0
MINING	1	0	0	1	2	2	14.9	.0	12.2
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	10	9	30	21	34	38	27.7	11.8	24.9
PHYSICAL SCIENCES	133	163	163	170	186	197	6.9	5.9	6.8
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	96	123	120	147	165	169	11.4	2.4	9.9
PHYSICS	21	28	33	18	13	17	-9.1	30.8	-3.5
PHYSICAL SCIENCES, N.E.C.	16	12	10	5	8	11	-12.9	37.5	-6.1
ENVIRONMENTAL SCIENCES	116	96	104	183	189	170	10.3	-10.1	6.6
ATMOSPHERIC SCIENCES	0	1	1	0	0	2	**	**	**
GEOSCIENCES	25	21	29	68	48	45	13.9	-6.3	10.3
OCEANOGRAPHY	11	11	9	12	0	23	-100.0	**	13.1
ENVIRONMENTAL SCIENCES, N.E.C.	80	63	65	103	141	100	12.0	-29.1	3.8
MATHEMATICAL/COMPUTER SCIENCES	311	232	314	332	442	565	7.3	27.8	10.5
COMPUTER SCIENCE	82	83	139	162	259	320	25.9	23.6	25.5
MATHEMATICS AND APPLIED MATHEMATICS	225	145	174	169	182	238	-4.2	30.8	.9
STATISTICS	4	4	1	1	1	7	-24.2	600.0	9.8
LIFE SCIENCES	1,827	2,021	2,092	2,410	2,756	2,716	8.6	-1.5	6.3
AGRICULTURAL SCIENCES	52	44	42	45	103	89	14.6	-13.6	9.4
BIOLOGICAL SCIENCES	836	813	900	882	923	798	2.0	-13.5	-.8
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	14	6	12	11	19	2	6.3	-89.5	-27.7
BIOLOGY	618	577	688	569	615	605	-.1	-1.6	-.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	28	9	0	4	6	3	-26.5	-50.0	-31.1
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	3	2	5	1	**	-80.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	27	36	43	44	44	43	10.3	-2.3	8.1
MICROBIOLOGY	19	24	10	28	39	12	15.5	-69.2	-7.4
NUTRITION	42	82	57	73	54	65	5.2	20.4	7.6
PATHOLOGY	60	61	77	122	111	39	13.1	-64.9	-6.9
PHARMACOLOGY	0	0	0	1	0	0	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	20	10	5	17	6	4	-21.4	-33.3	-23.5
BIOSCIENCES, N.E.C.	8	8	5	11	24	24	24.6	.0	20.1
HEALTH SCIENCES	939	1,164	1,150	1,483	1,730	1,829	13.0	5.7	11.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	7	13	11	**	-15.4	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	8	8	**	.0	**
NURSING	164	282	184	234	374	401	17.9	7.2	16.1
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	5	5	0	4	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	14	10	18	17	24	23	11.4	-4.2	8.6
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	528	634	672	794	854	875	10.1	2.5	8.8
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	6	5	3	0	7	9	3.1	28.6	7.0
CLINICAL MEDICINE, N.E.C.	2	22	25	50	41	50	83.0	22.0	71.0
HEALTH RELATED, N.E.C.	225	208	239	372	409	448	12.7	9.5	12.2
PSYCHOLOGY	1,776	2,097	2,460	2,942	3,279	3,052	13.0	-6.9	9.4
SOCIAL SCIENCES	1,888	2,736	2,562	2,259	1,989	1,876	1.0	-5.7	-.1
AGRICULTURAL ECONOMICS	0	1	3	5	5	4	**	-20.0	**
ANTHROPOLOGY	54	78	65	64	37	36	-7.3	-2.7	-6.5
ECONOMICS (EXCEPT AGRICULTURAL)	65	62	49	70	68	94	.9	38.2	6.3
GEOGRAPHY	58	49	64	53	54	47	-1.4	-13.0	-3.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	24	16	6	14	7	8	-21.8	14.3	-16.7
POLITICAL SCIENCE	441	495	541	515	611	546	6.7	-10.6	3.6
SOCIOLOGY	200	186	236	204	162	148	-4.1	-8.6	-4.9
SOCIOLOGY/ANTHROPOLOGY	44	34	25	33	29	19	-8.0	-34.5	-13.1
SOCIAL SCIENCES, N.E.C.	1,002	1,815	1,573	1,301	1,016	974	.3	-4.1	-.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-11. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY FEDERAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	1,797	2,185	1,579	1,563	1,227	1,316	-7.3	7.3	-5.1
ENGINEERING	107	100	54	81	57	90	-13.8	76.5	-2.8
AEROSPACE	1	0	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0
CHEMICAL	1	0	0	0	0	0	-100.0	**	-100.0
CIVIL	43	40	29	15	8	8	-28.6	.0	-24.4
ELECTRICAL	11	21	3	34	14	26	4.9	85.7	15.4
ENGINEERING SCIENCE	1	1	2	4	2	0	14.9	-100.0	-100.0
INDUSTRIAL	14	7	0	8	2	7	-32.2	250.0	-10.9
MECHANICAL	10	13	0	0	0	2	-100.0	**	-23.5
METALLURGICAL/MATERIALS	1	4	5	3	7	11	47.6	57.1	49.1
MINING	5	3	2	1	3	5	-9.7	66.7	.0
NUCLEAR	0	2	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	20	9	13	16	15	31	-5.6	106.7	7.6
PHYSICAL SCIENCES	34	54	78	52	57	69	10.9	21.1	12.5
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	26	42	71	48	51	57	14.4	11.8	14.0
PHYSICS	8	8	6	4	5	12	-9.0	140.0	7.0
PHYSICAL SCIENCES, N.E.C.	0	4	1	0	1	0	**	-100.0	**
ENVIRONMENTAL SCIENCES	48	62	58	73	45	46	-1.3	2.2	-.7
ATMOSPHERIC SCIENCES	0	0	2	1	0	2	**	**	**
GEOSCIENCES	27	20	14	22	16	14	-9.9	-12.5	-10.4
OCEANOGRAPHY	0	0	3	8	0	1	**	**	**
ENVIRONMENTAL SCIENCES, N.E.C.	21	42	39	42	29	29	6.7	.0	5.5
MATHEMATICAL/COMPUTER SCIENCES	56	53	24	100	78	118	6.9	51.3	13.2
COMPUTER SCIENCE	28	29	15	74	64	102	18.0	59.4	24.0
MATHEMATICS AND APPLIED MATHEMATICS	28	23	8	26	14	16	-12.9	14.3	-8.9
STATISTICS	0	1	1	0	0	0	**	**	**
LIFE SCIENCES	472	524	628	617	602	579	5.0	-3.8	3.5
AGRICULTURAL SCIENCES	56	25	41	39	20	29	-18.6	45.0	-10.4
BIOLOGICAL SCIENCES	188	196	266	219	244	231	5.4	-5.3	3.5
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	1	2	9	2	0	0	-100.0	**	-100.0
BIOLOGY	143	167	203	159	179	159	4.6	-11.2	1.8
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	7	2	0	1	0	0	-100.0	**	-100.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	1	0	**	-100.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	5	3	8	2	2	0	-16.7	-100.0	-100.0
NUTRITION	20	16	16	19	29	23	7.7	-20.7	2.4
PATHOLOGY	9	3	27	33	0	14	-100.0	**	7.6
PHARMACOLOGY	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	0	1	0	1	0	0	**	**	**
BIOSCIENCES, N.E.C.	3	2	3	2	33	35	61.5	6.1	50.6
HEALTH SCIENCES	228	303	321	359	338	319	8.2	-5.6	5.8
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	1	1	**	.0	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	44	62	101	104	154	120	28.5	-15.6	19.8
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	11	11	0	1	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	0	1	1	**	.0	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	121	163	86	112	75	78	-9.1	4.0	-7.1
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	3	9	0	16	12	39.8	-25.0	26.0
CLINICAL MEDICINE, N.E.C.	0	1	1	0	5	3	**	-40.0	**
HEALTH RELATED, N.E.C.	60	67	111	132	86	93	7.5	8.1	7.6
PSYCHOLOGY	235	325	165	201	160	138	-7.4	-13.8	-8.5
SOCIAL SCIENCES	845	1,067	572	439	234	276	-22.6	17.9	-17.0
AGRICULTURAL ECONOMICS	0	0	1	25	16	9	**	-43.8	**
ANTHROPOLOGY	18	21	16	1	1	1	-43.9	.0	-38.2
ECONOMICS (EXCEPT AGRICULTURAL)	31	25	2	3	7	6	-25.7	-14.3	-23.9
GEOGRAPHY	16	3	8	14	5	1	-20.8	-80.0	-37.0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	3	1	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	255	270	153	168	71	100	-22.6	40.8	-14.4
SOCIOLOGY	81	23	6	18	4	4	-45.2	.0	-39.4
SOCIOLOGY/ANTHROPOLOGY	22	11	15	9	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	419	713	371	201	130	155	-20.9	19.2	-15.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-12. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY INSTITUTIONAL SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	3,530	3,805	3,865	3,772	3,752	4,267	1.2	13.7	3.2
ENGINEERING	81	126	255	220	259	400	26.2	54.4	30.5
AEROSPACE	0	0	0	0	0	1	**	**	**
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	1	5	1	0	**	-100.0	**
CHEMICAL	6	7	22	15	5	20	-3.6	300.0	22.2
CIVIL	11	29	39	44	29	39	21.4	34.5	23.5
ELECTRICAL	7	26	33	33	79	60	62.4	-24.1	43.1
ENGINEERING SCIENCE	1	4	3	5	0	12	-100.0	**	51.3
INDUSTRIAL	23	22	54	28	17	66	-5.9	288.2	19.2
MECHANICAL	9	17	20	37	19	45	16.1	136.8	30.8
METALLURGICAL/MATERIALS	1	1	3	4	4	5	32.0	25.0	30.8
MINING	3	3	2	2	4	6	5.9	50.0	12.2
NUCLEAR	0	2	0	0	0	0	**	**	**
PETROLEUM	0	0	1	1	3	5	**	66.7	**
ENGINEERING, N.E.C.	20	15	77	46	98	141	37.4	43.9	38.5
PHYSICAL SCIENCES	397	413	434	413	405	425	.4	4.9	1.1
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	258	287	293	308	314	330	4.0	5.1	4.2
PHYSICS	124	108	120	98	82	77	-7.9	-6.1	-7.6
PHYSICAL SCIENCES, N.E.C.	15	18	11	7	9	18	-9.7	100.0	3.1
ENVIRONMENTAL SCIENCES	153	152	161	175	142	159	-1.5	12.0	.6
ATMOSPHERIC SCIENCES	0	2	1	1	1	0	**	-100.0	**
GEOSCIENCES	87	88	78	88	83	67	-.9	-19.3	-4.3
OCEANOGRAPHY	11	13	14	16	17	15	9.1	-11.8	5.3
ENVIRONMENTAL SCIENCES, N.E.C.	55	49	68	70	41	77	-5.7	87.8	5.8
MATHEMATICAL/COMPUTER SCIENCES	353	303	393	361	343	470	-.6	37.0	4.9
COMPUTER SCIENCE	87	41	143	89	70	140	-4.3	100.0	8.3
MATHEMATICS AND APPLIED MATHEMATICS	266	260	241	268	269	322	.2	19.7	3.2
STATISTICS	0	2	9	4	4	8	**	100.0	**
LIFE SCIENCES	1,236	1,237	1,219	1,184	1,159	1,296	-1.3	11.8	.8
AGRICULTURAL SCIENCES	29	52	53	40	39	70	6.1	79.5	15.8
BIOLOGICAL SCIENCES	1,033	943	912	839	836	832	-4.1	-.5	-3.5
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	25	21	24	20	0	17	-100.0	**	-6.2
BIOLOGY	903	827	825	695	765	704	-3.3	-8.0	-4.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	28	14	12	11	10	10	-18.6	.0	-15.8
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	7	7	4	5	**	25.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	12	16	19	**	18.8	**
MICROBIOLOGY	35	33	2	27	14	15	-16.7	7.1	-13.2
NUTRITION	17	15	9	11	3	11	-29.3	266.7	-7.0
PATHOLOGY	1	1	12	18	1	22	.0	2100.0	67.4
PHARMACOLOGY	0	1	1	1	1	1	**	.0	**
PHYSIOLOGY	2	3	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	18	22	20	27	17	15	-1.1	-11.8	-3.0
BIOSCIENCES, N.E.C.	4	6	0	10	5	13	4.6	160.0	21.7
HEALTH SCIENCES	174	242	254	305	284	394	10.3	38.7	14.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	2	0	**	-100.0	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	4	4	6	7	**	16.7	**
NURSING	11	19	17	30	20	41	12.7	105.0	24.5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	2	1	0	7	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	4	2	3	4	4	**	.0	**
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	132	176	180	164	165	204	4.6	23.6	7.5
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	2	3	1	0	0	0	-100.0	**	-100.0
CLINICAL MEDICINE, N.E.C.	0	2	2	17	19	26	**	36.8	**
HEALTH RELATED, N.E.C.	29	34	46	86	68	105	18.6	54.4	23.9
PSYCHOLOGY	681	879	740	704	815	806	3.7	-1.1	2.8
SOCIAL SCIENCES	629	695	663	715	629	711	.0	13.0	2.1
AGRICULTURAL ECONOMICS	5	6	2	0	1	4	-27.5	300.0	-3.7
ANTHROPOLOGY	23	16	21	34	24	21	.9	-12.5	-1.5
ECONOMICS (EXCEPT AGRICULTURAL)	59	63	54	45	47	64	-4.4	36.2	1.4
GEOGRAPHY	76	94	62	77	66	64	-2.8	-3.0	-2.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	5	12	8	8	3	1	-9.7	-66.7	-23.5
POLITICAL SCIENCE	187	205	210	252	223	300	3.6	34.5	8.2
SOCIOLOGY	74	92	109	94	96	87	5.3	-9.4	2.7
SOCIOLOGY/ANTHROPOLOGY	29	23	12	13	17	13	-10.1	-23.5	-12.5
SOCIAL SCIENCES, N.E.C.	171	184	185	192	152	157	-2.3	3.3	-1.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-13. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS SUPPORTED BY OTHER OUTSIDE SOURCES IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	653	838	956	732	782	833	3.7	6.5	4.1
ENGINEERING	44	54	134	134	229	188	39.1	-17.9	27.4
AEROSPACE	3	0	1	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	2	0	0	4	**	**	**
CHEMICAL	4	13	8	10	41	22	59.3	-46.3	32.9
CIVIL	9	2	20	29	42	36	36.1	-14.3	26.0
ELECTRICAL	7	24	32	52	62	36	54.7	-41.9	31.4
ENGINEERING SCIENCE	0	2	2	1	0	2	**	**	**
INDUSTRIAL	5	1	28	2	8	18	9.9	125.0	23.8
MECHANICAL	1	2	10	28	33	11	101.2	-66.7	49.1
METALLURGICAL/MATERIALS	1	0	4	0	5	4	38.0	-20.0	26.0
MINING	2	0	1	3	6	4	24.6	-33.3	12.2
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	1	**	**	**
ENGINEERING, N.E.C.	12	10	26	9	32	50	21.7	56.3	26.9
PHYSICAL SCIENCES	27	47	38	34	53	42	14.4	-20.8	7.6
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	9	44	31	17	53	39	42.6	-26.4	27.7
PHYSICS	16	3	5	5	0	3	-100.0	**	-24.3
PHYSICAL SCIENCES, N.E.C.	2	0	2	12	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	24	28	33	47	70	30	23.9	-57.1	3.8
ATMOSPHERIC SCIENCES	0	0	0	0	1	5	**	400.0	**
GEOSCIENCES	4	13	13	10	8	6	14.9	-25.0	7.0
OCEANOGRAPHY	5	0	1	11	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES, N.E.C.	15	15	19	26	61	19	32.4	-68.9	4.0
MATHEMATICAL/COMPUTER SCIENCES	44	39	52	38	65	137	8.1	110.8	20.8
COMPUTER SCIENCE	29	32	45	36	58	129	14.9	122.4	28.2
MATHEMATICS AND APPLIED MATHEMATICS	13	7	6	2	7	8	-11.6	14.3	-7.8
STATISTICS	2	0	1	0	0	0	-100.0	**	-100.0
LIFE SCIENCES	194	177	189	176	137	181	-6.7	32.1	-1.1
AGRICULTURAL SCIENCES	6	4	18	36	23	24	30.8	4.3	26.0
BIOLOGICAL SCIENCES	93	76	85	79	67	73	-6.3	9.0	-4.0
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	0	0	5	5	0	0	**	**	**
BIOLOGY	61	50	55	67	56	60	-1.7	7.1	-.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	3	1	0	0	0	0	-100.0	**	-100.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	15	19	16	0	2	0	-33.2	-100.0	-100.0
MICROBIOLOGY	0	0	0	0	0	0	0	0	0
NUTRITION	2	6	4	2	4	8	14.9	100.0	26.0
PATHOLOGY	3	0	5	0	0	2	-100.0	**	-6.5
PHARMACOLOGY	0	0	0	1	0	0	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	6	0	0	0	3	2	-12.9	-33.3	-16.7
BIOSCIENCES, N.E.C.	3	0	0	4	2	1	-7.8	-50.0	-16.7
HEALTH SCIENCES	95	97	86	61	47	84	-13.1	78.7	-2.0
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	3	3	0	0	**	**	**
NURSING	2	8	5	6	6	28	24.6	366.7	55.2
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	1	0	0	0	1	**	**	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	5	3	5	0	0	0	-100.0	**	-100.0
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	5	33	52	25	20	35	32.0	75.0	38.3
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	1	0	0	6	2	**	-66.7	**
CLINICAL MEDICINE, N.E.C.	2	15	1	15	10	1	38.0	-90.0	-10.9
HEALTH RELATED, N.E.C.	81	36	20	12	5	17	-42.7	240.0	-22.9
PSYCHOLOGY	84	185	132	77	26	20	-20.9	-23.1	-21.3
SOCIAL SCIENCES	236	308	378	226	202	235	-3.1	16.3	-.1
AGRICULTURAL ECONOMICS	3	0	4	8	0	2	-100.0	**	-6.5
ANTHROPOLOGY	6	3	0	0	1	0	-30.1	-100.0	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	40	36	40	68	30	56	-5.6	86.7	5.8
GEOGRAPHY	11	1	0	3	11	20	.0	81.8	10.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	0	0	0	7	0	0	**	**	**
POLITICAL SCIENCE	70	129	103	91	100	113	7.4	13.0	8.3
SOCIOLOGY	5	9	18	3	1	5	-27.5	400.0	.0
SOCIOLOGY/ANTHROPOLOGY	1	0	0	0	0	0	-100.0	**	-100.0
SOCIAL SCIENCES, N.E.C.	100	130	213	46	59	39	-10.0	-33.9	-14.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-14. — SELF-SUPPORTED FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	10,779	11,883	12,570	12,406	12,885	11,867	3.6	-7.9	1.6
ENGINEERING	501	610	606	691	756	792	8.6	4.8	7.9
AEROSPACE	8	9	0	3	3	2	-17.8	-33.3	-20.6
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	2	0	16	12	13	19	45.4	46.2	45.5
CHEMICAL	23	10	21	25	7	20	-21.2	185.7	-2.3
CIVIL	84	151	183	140	229	213	22.2	-7.0	16.8
ELECTRICAL	59	121	120	132	101	118	11.4	16.8	12.2
ENGINEERING SCIENCE	3	2	1	7	14	11	36.1	-21.4	24.2
INDUSTRIAL	61	101	35	158	183	150	24.6	-18.0	16.2
MECHANICAL	38	76	61	46	33	82	-2.8	148.5	13.7
METALLURGICAL/MATERIALS	4	5	3	11	2	5	-12.9	150.0	3.8
MINING	1	1	1	1	4	7	32.0	75.0	38.3
NUCLEAR	0	1	0	0	0	0	**	**	**
PETROLEUM	0	0	0	2	0	0	**	**	**
ENGINEERING, N.E.C.	218	133	165	154	167	165	-5.2	-1.2	-4.5
PHYSICAL SCIENCES	213	253	194	157	188	170	-2.5	-9.6	-3.7
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	134	181	124	126	133	115	-.1	-13.5	-2.5
PHYSICS	41	40	43	24	34	33	-3.7	-2.9	-3.6
PHYSICAL SCIENCES, N.E.C.	38	32	27	7	21	22	-11.2	4.8	-8.7
ENVIRONMENTAL SCIENCES	317	286	295	409	374	349	3.4	-6.7	1.6
ATMOSPHERIC SCIENCES	0	2	0	10	4	1	**	-75.0	**
GEOSCIENCES	58	60	105	138	77	149	5.8	93.5	17.0
OCEANOGRAPHY	19	18	5	3	16	26	-3.4	62.5	5.4
ENVIRONMENTAL SCIENCES, N.E.C.	240	206	185	258	277	173	2.9	-37.5	-5.3
MATHEMATICAL/COMPUTER SCIENCES	683	564	843	704	959	1,144	7.0	19.3	9.0
COMPUTER SCIENCE	321	306	572	463	778	826	19.4	6.2	17.1
MATHEMATICS AND APPLIED MATHEMATICS	341	245	270	239	181	311	-11.9	71.8	-1.5
STATISTICS	21	13	1	2	0	7	-100.0	**	-16.7
LIFE SCIENCES	2,430	2,587	2,643	2,663	3,091	2,526	4.9	-18.3	.6
AGRICULTURAL SCIENCES	186	190	343	251	336	252	12.6	-25.0	5.2
BIOLOGICAL SCIENCES	1,261	1,263	1,263	1,120	1,117	676	-2.4	-39.5	-9.9
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	20	10	11	5	19	1	-1.0	-94.7	-39.3
BIOLOGY	984	914	999	798	762	537	-5.0	-29.5	-9.6
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	37	21	6	2	3	3	-39.5	.0	-34.2
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	3	3	3	0	**	-100.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	17	19	27	36	29	28	11.3	-3.4	8.7
MICROBIOLOGY	43	83	13	34	35	9	-4.0	-74.3	-22.9
NUTRITION	27	72	46	77	58	52	16.5	-10.3	11.5
PATHOLOGY	102	104	134	152	194	34	13.7	-82.5	-16.7
PHARMACOLOGY	0	0	1	0	0	0	**	**	**
PHYSIOLOGY	3	12	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	27	19	9	8	1	1	-48.3	.0	-42.3
BIOSCIENCES, N.E.C.	1	9	14	5	13	11	67.0	-15.4	49.1
HEALTH SCIENCES	983	1,134	1,037	1,292	1,638	1,598	10.8	-2.4	8.4
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	18	22	24	**	9.1	**
DENTISTRY	21	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	15	15	8	7	**	-12.5	**
NURSING	139	239	72	103	222	231	9.8	4.1	8.8
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	4	6	3	16	4	**	-75.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	16	9	24	22	25	23	9.3	-8.0	6.2
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	359	411	459	577	703	639	14.4	-9.1	10.1
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	16	9	2	12	0	8	-100.0	**	-10.9
CLINICAL MEDICINE, N.E.C.	2	19	33	39	28	39	69.5	39.3	64.1
HEALTH RELATED, N.E.C.	430	417	426	503	614	623	7.4	1.5	6.4
PSYCHOLOGY	3,167	3,055	4,091	4,117	4,167	3,775	5.6	-9.4	3.0
SOCIAL SCIENCES	3,468	4,528	3,898	3,665	3,350	3,111	-.7	-7.1	-1.8
AGRICULTURAL ECONOMICS	5	12	11	2	6	7	3.7	16.7	5.8
ANTHROPOLOGY	96	128	90	105	53	56	-11.2	5.7	-8.6
ECONOMICS (EXCEPT AGRICULTURAL)	246	220	140	210	214	271	-2.7	26.6	1.6
GEOGRAPHY	138	98	114	104	105	81	-5.3	-22.9	-8.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	42	26	13	11	11	11	-23.5	.0	-20.0
POLITICAL SCIENCE	1,080	1,440	1,154	1,049	1,227	1,082	2.6	-11.8	*
SOCIOLOGY	305	315	335	224	198	146	-8.3	-26.3	-11.6
SOCIOLOGY/ANTHROPOLOGY	56	46	28	34	34	32	-9.5	-5.9	-8.9
SOCIAL SCIENCES, N.E.C.	1,500	2,243	2,013	1,926	1,502	1,425	*	-5.1	-.9

* LESS THAN 0.05 PERCENT CHANGE
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-15. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY TYPE AND SOURCE OF MAJOR SUPPORT: 1979-82

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER				AVERAGE ANNUAL PERCENT CHANGE	
	1979	1980	1981	1982	1979-81	1981-82
TOTAL, ALL TYPES:						
TOTAL, ALL SOURCES	18,970	18,473	18,646	18,283	-0.9	-1.9
FEDERAL, TOTAL	1,579	1,563	1,227	1,316	-11.8	7.3
DEPT OF DEFENSE	40	47	49	109	10.7	122.4
DEPT OF HHS, TOTAL	627	566	363	346	-23.9	-4.7
NIH	171	197	152	154	-5.7	1.3
OTHER HHS	456	369	211	192	-32.0	-9.0
NSF	101	107	98	99	-1.5	1.0
ALL OTHER FEDERAL	811	843	717	762	-6.0	6.3
INSTITUTIONAL SUPPORT	3,865	3,772	3,752	4,267	-1.5	13.7
OTHER OUTSIDE SUPPORT, TOTAL	956	732	782	833	-9.6	6.5
ALL OTHER U.S.	665	414	432	473	-19.4	9.5
FOREIGN	291	318	350	360	9.7	2.9
SELF-SUPPORT	12,570	12,406	12,885	11,867	1.2	-7.9
FELLOWSHIPS AND TRAINEESHIPS:						
TOTAL, ALL SOURCES	1,234	1,149	1,015	1,064	-9.3	4.8
FEDERAL, TOTAL	638	678	527	498	-9.1	-5.5
DEPT OF DEFENSE	2	5	8	4	100.0	-50.0
DEPT OF HHS, TOTAL	476	392	292	231	-21.7	-20.9
NIH	78	103	87	76	5.6	-12.6
OTHER HHS	398	289	205	155	-28.2	-24.4
NSF	47	69	38	34	-10.1	-10.5
ALL OTHER FEDERAL	113	212	189	229	29.3	21.2
INSTITUTIONAL SUPPORT	377	366	307	422	-9.8	37.5
OTHER OUTSIDE SUPPORT, TOTAL	219	105	181	144	-9.1	-20.4
ALL OTHER U.S.	175	69	56	62	-43.4	10.7
FOREIGN	44	36	125	82	68.5	-34.4
SELF-SUPPORT	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:						
TOTAL, ALL SOURCES	1,015	1,139	1,192	1,200	8.4	.7
FEDERAL, TOTAL	288	315	264	319	-4.3	20.8
DEPT OF DEFENSE	7	10	17	9	55.8	-47.1
DEPT OF HHS, TOTAL	80	82	67	77	-8.5	14.9
NIH	75	76	63	72	-8.3	14.3
OTHER HHS	5	6	4	5	-10.6	25.0
NSF	43	25	24	32	-25.3	33.3
ALL OTHER FEDERAL	158	198	156	201	-.6	28.8
INSTITUTIONAL SUPPORT	662	697	844	786	12.9	-6.9
OTHER OUTSIDE SUPPORT, TOTAL	65	127	84	95	13.7	13.1
ALL OTHER U.S.	65	110	74	88	6.7	18.9
FOREIGN	0	17	10	7	**	-30.0
SELF-SUPPORT	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:						
TOTAL, ALL SOURCES	2,445	2,272	2,201	2,599	-5.1	18.1
FEDERAL, TOTAL	60	77	73	56	10.3	-23.3
DEPT OF DEFENSE	0	0	0	0	0	0
DEPT OF HHS, TOTAL	11	13	0	8	-100.0	**
NIH	7	1	0	0	-100.0	**
OTHER HHS	4	12	0	8	-100.0	**
NSF	9	7	3	3	-42.3	.0
ALL OTHER FEDERAL	40	57	70	45	32.3	-35.7
INSTITUTIONAL SUPPORT	2,352	2,163	2,095	2,495	-5.6	19.1
OTHER OUTSIDE SUPPORT, TOTAL	33	32	33	48	.0	45.5
ALL OTHER U.S.	33	32	33	48	.0	45.5
FOREIGN	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:						
TOTAL, ALL SOURCES	14,276	13,913	14,238	13,420	-.1	-5.7
FEDERAL, TOTAL	593	493	363	443	-21.8	22.0
DEPT OF DEFENSE	31	32	24	96	-12.0	300.0
DEPT OF HHS, TOTAL	60	79	4	30	-74.2	650.0
NIH	11	17	2	6	-57.4	200.0
OTHER HHS	49	62	2	24	-79.8	1100.0
NSF	2	6	33	30	306.2	-9.1
ALL OTHER FEDERAL	500	376	302	287	-22.3	-5.0
INSTITUTIONAL SUPPORT	474	546	506	564	3.3	11.5
OTHER OUTSIDE SUPPORT, TOTAL	639	468	484	546	-13.0	12.8
ALL OTHER U.S.	392	203	269	275	-17.2	2.2
FOREIGN	247	265	215	271	-6.7	26.0
SELF-SUPPORT	12,570	12,406	12,885	11,867	1.2	-7.9

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-16. — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-82

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	16,335	16,759	18,711	18,970	18,473	18,646	18,283	2.2	-1.9	1.6
NEW ENGLAND	1,153	1,066	1,309	1,285	1,383	736	834	-7.2	13.3	-4.5
CONNECTICUT	217	169	242	365	461	438	489	12.4	11.6	12.3
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	377	324	449	301	253	268	257	-5.5	-4.1	-5.3
NEW HAMPSHIRE	0	3	0	2	0	0	2	**	**	**
RHODE ISLAND	15	12	26	36	24	24	81	8.1	237.5	27.2
VERMONT	544	558	592	581	605	6	5	-52.8	-16.7	-48.8
MIDDLE ATLANTIC	2,228	2,346	2,666	2,272	1,576	1,771	1,881	-3.8	6.2	-2.4
NEW JERSEY	553	452	443	118	94	168	125	-18.0	-25.6	-19.1
NEW YORK	1,292	1,541	1,750	1,702	969	1,022	1,092	-3.8	6.8	-2.4
PENNSYLVANIA	383	353	473	452	513	581	664	7.2	14.3	8.2
EAST NORTH CENTRAL	2,648	2,249	2,117	2,386	2,850	2,905	3,165	1.6	9.0	2.6
ILLINOIS	1,449	1,066	1,156	1,105	1,237	1,165	1,152	-3.6	-1.1	-3.2
INDIANA	58	64	49	59	46	87	121	7.0	39.1	11.1
MICHIGAN	540	518	206	193	253	272	239	-10.8	-12.1	-11.0
OHIO	331	299	368	697	919	966	1,036	19.5	7.2	17.7
WISCONSIN	270	302	338	332	395	415	617	7.4	48.7	12.5
WEST NORTH CENTRAL	811	928	915	946	941	832	867	.4	4.2	1.0
IOWA	153	172	132	37	37	39	34	-20.4	-12.8	-19.3
KANSAS	311	316	380	341	303	301	293	-.5	-2.7	-.8
MINNESOTA	198	218	169	324	312	286	257	6.3	-10.1	3.8
MISSOURI	147	219	230	239	278	196	275	4.9	40.3	9.4
NEBRASKA	2	3	4	5	11	10	8	30.8	-20.0	21.9
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	2,555	2,710	2,599	1,975	1,719	1,717	1,715	-6.4	-.1	-5.5
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	60	67	61	59	60	72	73	3.1	1.4	2.8
FLORIDA	878	970	990	705	462	421	376	-11.5	-10.7	-11.4
GEORGIA	398	447	450	198	185	199	173	-10.9	-13.1	-11.2
MARYLAND	205	187	179	353	340	342	343	8.9	.3	7.6
NORTH CAROLINA	443	442	442	277	395	352	400	-3.8	13.6	-1.4
SOUTH CAROLINA	59	55	46	47	26	37	51	-7.5	37.8	-2.1
VIRGINIA	347	410	332	332	251	257	256	-4.9	-.4	-4.3
WEST VIRGINIA	165	132	99	4	0	37	43	-22.1	16.2	-17.5
EAST SOUTH CENTRAL	734	819	957	1,116	906	976	1,049	4.9	7.5	5.2
ALABAMA	155	186	206	292	277	274	362	10.0	32.1	12.9
KENTUCKY	264	232	386	328	323	305	310	2.4	1.6	2.3
MISSISSIPPI	140	215	175	150	120	102	108	-5.1	5.9	-3.6
TENNESSEE	175	186	190	346	186	295	269	9.1	-8.8	6.3
WEST SOUTH CENTRAL	1,036	1,492	1,621	1,935	1,514	1,704	1,820	8.6	6.8	8.4
ARKANSAS	91	140	156	154	181	218	264	15.7	21.1	16.4
LOUISIANA	156	197	177	150	142	197	203	4.0	3.0	3.8
OKLAHOMA	28	32	35	63	64	46	50	8.6	8.7	8.6
TEXAS	761	1,123	1,253	1,568	1,127	1,243	1,303	8.5	4.8	8.0
MOUNTAIN	312	328	419	428	325	340	346	1.4	1.8	1.5
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	27	27	11	24	25	24	21	-1.9	-12.5	-3.5
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	13	24	21	29	38	43	51	22.1	18.6	21.6
NEVADA	161	161	249	108	72	92	93	-8.9	1.1	-7.5
NEW MEXICO	111	116	138	267	190	181	181	8.5	.0	7.2
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	4,858	4,812	6,051	6,609	7,233	7,650	6,602	7.9	-13.7	4.5
ALASKA	0	4	38	37	52	52	50	**	-3.8	**
CALIFORNIA	4,495	4,402	5,513	5,962	6,650	6,939	5,673	7.5	-18.2	3.4
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	66	80	57	56	50	156	160	15.4	2.6	13.5
WASHINGTON	297	326	443	554	481	503	719	9.2	42.9	13.5
OUTLYING AREAS	0	9	57	18	26	15	4	**	-73.3	**

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-17. -- FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS WITH U.S. CITIZENSHIP IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	17,119	16,833	16,478	16,334	15,699	-1.2	-3.9	-1.7
ENGINEERING	576	600	663	752	880	6.9	17.0	8.8
AEROSPACE	6	0	0	0	1	-100.0	**	-30.1
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	19	17	13	23	**	76.9	**
CHEMICAL	16	23	20	29	43	16.0	48.3	21.9
CIVIL	178	172	153	185	188	1.0	1.6	1.1
ELECTRICAL	111	81	136	122	152	2.4	24.6	6.5
ENGINEERING SCIENCE	9	6	15	12	21	7.5	75.0	18.5
INDUSTRIAL	75	86	110	116	145	11.5	25.0	14.1
MECHANICAL	72	46	61	35	84	-16.5	140.0	3.1
METALLURGICAL/MATERIALS	8	8	11	12	17	10.7	41.7	16.3
MINING	7	5	4	12	17	14.4	41.7	19.4
NUCLEAR	1	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	2	**	**	**
ENGINEERING, N.E.C.	93	154	136	216	187	23.5	-13.4	15.0
PHYSICAL SCIENCES	643	573	501	511	521	-5.6	2.0	-4.1
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	455	405	385	400	409	-3.2	2.2	-2.1
PHYSICS	140	136	94	84	77	-12.0	-8.3	-11.3
PHYSICAL SCIENCES, N.E.C.	48	32	22	27	35	-13.4	29.6	-6.1
ENVIRONMENTAL SCIENCES	473	466	640	576	539	5.0	-6.4	2.6
ATMOSPHERIC SCIENCES	4	3	12	6	7	10.7	16.7	11.8
GEOSCIENCES	171	189	252	176	226	.7	28.4	5.7
OCEANOGRAPHY	31	23	38	32	40	.8	25.0	5.2
ENVIRONMENTAL SCIENCES, N.E.C.	267	251	338	362	266	7.9	-26.5	-.1
MATHEMATICAL/COMPUTER SCIENCES	783	985	920	978	1,317	5.7	34.7	11.0
COMPUTER SCIENCE	306	547	475	623	814	19.5	30.7	21.6
MATHEMATICS AND APPLIED MATHEMATICS	463	428	439	351	488	-6.7	39.0	1.1
STATISTICS	14	10	6	4	15	-26.9	275.0	1.4
LIFE SCIENCES	4,258	4,237	4,269	4,620	4,138	2.1	-10.4	-.6
AGRICULTURAL SCIENCES	230	337	293	330	255	9.4	-22.7	2.1
BIOLOGICAL SCIENCES	2,294	2,277	2,018	2,039	1,636	-2.9	-19.8	-6.5
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	20	42	20	14	14	-8.5	.0	-6.9
BIOLOGY	1,839	1,894	1,567	1,608	1,335	-3.3	-17.0	-6.2
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	34	18	14	13	13	-21.4	.0	-17.5
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	8	10	7	5	**	-28.6	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	36	43	48	45	44	5.7	-2.2	4.1
MICROBIOLOGY	109	16	50	42	18	-21.2	-57.1	-30.2
NUTRITION	78	51	76	60	74	-6.3	23.3	-1.1
PATHOLOGY	107	166	188	181	64	14.0	-64.6	-9.8
PHARMACOLOGY	1	2	1	1	1	.0	.0	.0
PHYSIOLOGY	15	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	40	29	31	19	16	-17.0	-15.8	-16.7
BIOSCIENCES, N.E.C.	15	8	13	49	52	34.4	6.1	28.2
HEALTH SCIENCES	1,734	1,623	1,958	2,251	2,247	6.7	-.2	5.3
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	18	25	25	**	.0	**
DENTISTRY	26	0	0	0	0	-100.0	**	-100.0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	22	22	13	12	**	-7.7	**
NURSING	327	191	235	397	425	5.0	7.1	5.4
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	10	16	12	13	7	6.8	-46.2	-6.9
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	16	24	19	28	26	15.0	-7.1	10.2
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	774	756	859	948	930	5.2	-1.9	3.7
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	13	10	10	11	14	-4.1	27.3	1.5
CLINICAL MEDICINE, N.E.C.	31	37	71	59	55	17.5	-6.8	12.2
HEALTH RELATED, N.E.C.	537	567	712	757	753	9.0	-.5	7.0
PSYCHOLOGY	4,324	4,948	4,944	4,996	4,543	3.7	-9.1	1.0
SOCIAL SCIENCES	6,062	5,024	4,541	3,901	3,761	-10.4	-3.6	-9.1
AGRICULTURAL ECONOMICS	5	8	18	10	10	18.9	.0	14.9
ANTHROPOLOGY	163	114	133	73	71	-18.2	-2.7	-15.3
ECONOMICS (EXCEPT AGRICULTURAL)	194	123	182	148	202	-6.5	36.5	.8
GEOGRAPHY	185	168	169	161	150	-3.4	-6.8	-4.1
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	32	16	23	13	11	-20.2	-15.4	-19.2
POLITICAL SCIENCE	1,829	1,437	1,383	1,459	1,401	-5.5	-4.0	-5.2
SOCIOLOGY	397	443	310	274	220	-8.9	-19.7	-11.1
SOCIOLOGY/ANTHROPOLOGY	77	52	53	48	43	-11.1	-10.4	-11.0
SOCIAL SCIENCES, N.E.C.	3,180	2,663	2,270	1,715	1,653	-14.3	-3.6	-12.3

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-18 -- FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1977 AND 1979-82 1/

FIELD	NUMBER					AVERAGE ANNUAL PERCENT CHANGE		
	1977	1979	1980	1981	1982	1977-81	1981-82	1977-82
TOTAL, ALL FIELDS	1,592	2,137	1,995	2,312	2,584	9.8	11.8	10.2
ENGINEERING	314	449	463	543	590	14.7	8.7	13.4
AEROSPACE	3	1	3	3	2	.0	-33.3	-7.8
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	1	0	**	-100.0	**
CHEMICAL	14	28	30	24	19	14.4	-20.8	6.3
CIVIL	44	99	75	123	108	29.3	-12.2	19.7
ELECTRICAL	81	107	115	134	88	13.4	-34.3	1.7
ENGINEERING SCIENCE	0	2	2	4	4	**	.0	**
INDUSTRIAL	56	31	86	94	96	13.8	2.1	11.4
MECHANICAL	36	45	50	50	56	8.6	12.0	9.2
METALLURGICAL/MATERIALS	2	7	7	6	8	31.6	33.3	32.0
MINING	0	1	3	5	5	**	.0	**
NUCLEAR	4	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	1	3	3	4	**	33.3	**
ENGINEERING, N.E.C.	74	127	89	96	200	6.7	108.3	22.0
PHYSICAL SCIENCES	124	171	155	192	185	11.6	-3.6	8.3
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	99	114	114	151	132	11.1	-12.6	5.9
PHYSICS	19	48	37	37	48	18.1	29.7	20.4
PHYSICAL SCIENCES, N.E.C.	6	9	4	4	5	-9.6	25.0	-3.6
ENVIRONMENTAL SCIENCES	55	81	64	55	45	.0	-18.2	-3.9
ATMOSPHERIC SCIENCES	0	0	0	0	1	**	**	**
GEOSCIENCES	10	21	6	8	10	-5.4	25.0	.0
OCEANOGRAPHY	0	0	0	1	2	**	100.0	**
ENVIRONMENTAL SCIENCES, N.E.C.	45	60	58	46	32	.6	-30.4	-6.6
MATHEMATICAL/COMPUTER SCIENCES	176	327	283	467	552	27.6	18.2	25.7
COMPUTER SCIENCE	102	228	187	347	383	35.8	10.4	30.3
MATHEMATICS AND APPLIED MATHEMATICS	72	97	96	120	169	13.6	40.8	18.6
STATISTICS	2	2	0	0	0	-100.0	**	-100.0
LIFE SCIENCES	267	442	371	369	444	8.4	20.3	10.7
AGRICULTURAL SCIENCES	41	118	73	88	120	21.0	36.4	24.0
BIOLOGICAL SCIENCES	184	249	239	225	176	5.2	-21.8	-.9
ANATOMY	0	0	0	0	0	0	0	0
BIOCHEMISTRY	13	7	12	5	4	-21.2	-20.0	-21.0
BIOLOGY	119	188	152	154	125	6.7	-18.8	1.0
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	4	0	0	0	0	-100.0	**	-100.0
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	2	0	1	0	**	-100.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	2	0	0	2	3	.0	50.0	8.4
MICROBIOLOGY	10	7	13	9	6	-2.6	-33.3	-9.7
NUTRITION	31	24	33	34	20	2.3	-41.2	-8.4
PATHOLOGY	1	12	15	14	8	93.4	-42.9	51.6
PHARMACOLOGY	0	0	1	0	0	**	**	**
PHYSIOLOGY	0	0	0	0	0	0	0	0
ZOOLOGY	2	0	5	2	2	.0	.0	.0
BIOSCIENCES, N.E.C.	2	9	8	4	8	18.9	100.0	32.0
HEALTH SCIENCES	42	75	59	56	148	7.5	164.3	28.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	1	2	**	100.0	**
NURSING	1	4	8	5	5	49.5	.0	38.0
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	2	3	3	3	6	10.7	100.0	24.6
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4	9	6	2	2	-15.9	.0	-12.9
PSYCHIATRY	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	9	21	19	15	26	13.6	73.3	23.6
SURGERY	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	2	2	11	8	38.4	-27.3	21.7
CLINICAL MEDICINE, N.E.C.	6	0	0	3	14	-15.9	366.7	18.5
HEALTH RELATED, N.E.C.	17	36	21	16	85	-1.5	431.3	38.0
PSYCHOLOGY	120	180	155	172	196	9.4	14.0	10.3
SOCIAL SCIENCES	536	487	504	514	572	-1.0	11.3	1.3
AGRICULTURAL ECONOMICS	13	10	17	13	12	.0	-7.7	-1.6
ANTHROPOLOGY	5	13	7	6	7	4.7	16.7	7.0
ECONOMICS (EXCEPT AGRICULTURAL)	150	113	144	150	195	.0	30.0	5.4
GEOGRAPHY	11	16	29	26	16	24.0	-38.5	7.8
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	7	5	3	1	1	-38.5	.0	-32.2
POLITICAL SCIENCE	215	183	177	162	194	-6.8	19.8	-2.0
SOCIOLOGY	42	25	29	25	22	-12.2	-12.0	-12.1
SOCIOLOGY/ANTHROPOLOGY	3	3	3	3	2	.0	-33.3	-7.8
SOCIAL SCIENCES, N.E.C.	90	119	95	128	123	9.2	-3.9	6.4

1/ DISTRIBUTION BY CITIZENSHIP WAS NOT REQUESTED IN 1978.
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-19. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	27,437	29,201	33,043	33,648	30,746	32,834	33,985	3.0	3.5	3.1
ENGINEERING	3,051	3,127	3,829	4,061	3,750	4,653	4,857	7.3	4.4	6.9
AEROSPACE	14	16	13	4	4	4	5	-18.8	25.0	-13.7
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	21	16	30	26	31	31	29	6.7	-6.5	4.7
CHEMICAL	85	101	100	134	77	151	175	10.1	15.9	10.9
CIVIL	499	548	690	665	695	814	649	8.5	-20.3	3.8
ELECTRICAL	621	631	858	783	814	999	1,168	8.2	16.9	9.4
ENGINEERING SCIENCE	43	34	108	157	146	196	265	28.8	35.2	29.7
INDUSTRIAL	591	559	657	483	478	628	622	1.0	-1.0	.7
MECHANICAL	431	387	482	606	622	620	567	6.2	-8.5	4.0
METALLURGICAL/MATERIALS	33	36	59	85	53	60	69	10.5	15.0	11.1
MINING	4	0	0	0	0	1	3	-20.6	200.0	-4.0
NUCLEAR	19	12	14	4	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	690	787	818	1,114	830	1,149	1,305	8.9	13.6	9.5
PHYSICAL SCIENCES	1,139	1,144	1,281	1,038	895	894	981	-4.0	9.7	-2.1
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	825	820	863	696	613	546	684	-6.6	25.3	-2.6
PHYSICS	236	239	301	196	185	163	160	-6.0	-1.8	-5.4
PHYSICAL SCIENCES, N.E.C.	78	85	117	146	97	185	137	15.5	-25.9	8.4
ENVIRONMENTAL SCIENCES	640	745	820	726	709	812	863	4.0	6.3	4.4
ATMOSPHERIC SCIENCES	0	0	6	9	7	3	4	**	33.3	**
GEOSCIENCES	284	308	366	343	285	334	342	2.7	2.4	2.7
OCEANOGRAPHY	0	2	13	15	107	116	115	**	-.9	**
ENVIRONMENTAL SCIENCES, N.E.C.	356	435	435	359	310	359	402	.1	12.0	1.8
MATHEMATICAL/COMPUTER SCIENCES	2,947	2,865	3,092	2,773	2,705	3,753	4,724	4.1	25.9	7.0
COMPUTER SCIENCE	1,076	1,195	1,468	1,421	1,491	2,307	2,898	13.6	25.6	15.2
MATHEMATICS AND APPLIED MATHEMATICS	1,717	1,494	1,432	1,163	1,063	1,321	1,698	-4.3	28.5	-.3
STATISTICS	154	176	192	189	151	125	128	-3.4	2.4	-2.6
LIFE SCIENCES	5,745	6,363	7,603	7,686	7,141	7,161	7,592	3.7	6.0	4.1
AGRICULTURAL SCIENCES	260	276	302	377	295	303	348	2.6	14.9	4.3
BIOLOGICAL SCIENCES	3,385	3,627	4,139	3,633	3,210	2,834	2,755	-2.9	-2.8	-2.9
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	104	97	84	61	30	20	16	-24.0	-20.0	-23.5
BIOLOGY	2,877	3,050	3,420	2,874	2,518	2,308	2,146	-3.6	-7.0	-4.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	22	22	6	8	8	9	11	-13.8	22.2	-9.4
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	41	45	28	**	-37.8	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	29	19	14	5	4	3	3	-31.5	.0	-27.7
MICROBIOLOGY	148	135	166	164	139	135	121	-1.5	-10.4	-2.8
NUTRITION	38	57	112	169	163	140	162	24.3	15.7	23.0
PATHOLOGY	58	148	151	152	192	43	138	-4.9	220.9	13.2
PHARMACOLOGY	0	0	2	6	8	10	10	**	.0	**
PHYSIOLOGY	51	53	49	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	9	8	4	8	0	20	14	14.2	-30.0	6.5
BIOSCIENCES, N.E.C.	49	38	131	133	107	101	106	12.8	5.0	11.7
HEALTH SCIENCES	2,100	2,460	3,162	3,676	3,636	4,024	4,489	11.4	11.6	11.5
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	3	8	31	**	287.5	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	7	7	0	0	**	**	**
NURSING	348	437	628	1,000	884	1,230	1,527	23.4	24.1	23.5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	16	10	11	10	10	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	40	79	96	65	66	73	8.7	10.6	9.0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	691	854	958	1,058	989	1,088	963	7.9	-11.5	4.9
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	10	7	5	3	3	1	3	-31.9	200.0	-15.8
CLINICAL MEDICINE, N.E.C.	7	58	140	203	325	299	301	87.0	.7	71.1
HEALTH RELATED, N.E.C.	1,004	1,064	1,336	1,299	1,349	1,322	1,581	4.7	19.6	6.7
PSYCHOLOGY	4,879	5,212	6,126	6,685	6,113	6,448	6,393	4.8	-.9	3.9
SOCIAL SCIENCES	9,036	9,745	10,292	10,679	9,433	9,113	8,575	.1	-5.9	-.7
AGRICULTURAL ECONOMICS	3	4	3	5	7	4	22	4.9	450.0	32.9
ANTHROPOLOGY	253	273	372	305	259	234	182	-1.3	-22.2	-4.6
ECONOMICS (EXCEPT AGRICULTURAL)	700	561	604	608	575	639	691	-1.5	8.1	-.2
GEOGRAPHY	416	476	381	278	283	264	302	-7.3	14.4	-4.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	233	257	234	116	109	115	117	-11.1	1.7	-9.4
POLITICAL SCIENCE	4,268	4,678	5,409	5,659	5,326	5,164	4,556	3.2	-11.8	.9
SOCIOLOGY	668	586	652	489	436	470	423	-5.7	-10.0	-6.3
SOCIOLOGY/ANTHROPOLOGY	37	24	52	43	55	38	46	.4	21.1	3.2
SOCIAL SCIENCES, N.E.C.	2,458	2,886	2,585	3,176	2,383	2,185	2,236	-1.9	2.3	-1.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-20. — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PUBLIC MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	18,741	19,994	22,714	23,124	19,999	21,941	22,710	2.7	3.5	2.8
ENGINEERING	1,591	1,791	2,192	2,379	2,151	2,803	2,907	9.9	3.7	9.0
AEROSPACE	9	13	6	0	0	0	0	-100.0	**	-100.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	18	21	21	15	**	-28.6	**
CHEMICAL	43	47	63	85	21	85	111	12.0	30.6	14.5
CIVIL	422	452	565	547	581	700	534	8.8	-23.7	3.4
ELECTRICAL	234	261	427	357	391	491	612	13.1	24.6	14.7
ENGINEERING SCIENCE	0	0	1	2	1	1	1	**	.0	**
INDUSTRIAL	174	184	186	111	150	248	257	6.1	3.6	5.7
MECHANICAL	162	167	234	226	255	270	230	8.9	-14.8	5.1
METALLURGICAL/MATERIALS	12	19	38	54	20	10	10	-3.0	.0	-2.6
MINING	4	0	0	0	0	1	3	-20.6	200.0	-4.0
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	531	648	672	979	711	976	1,134	10.7	16.2	11.4
PHYSICAL SCIENCES	759	783	930	724	641	669	714	-2.1	6.7	-.9
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	527	531	607	495	403	350	449	-6.6	28.3	-2.3
PHYSICS	179	186	227	158	141	134	128	-4.7	-4.5	-4.7
PHYSICAL SCIENCES, N.E.C.	53	66	96	71	97	185	137	23.2	-25.9	14.5
ENVIRONMENTAL SCIENCES	621	728	775	676	663	755	818	3.3	8.3	4.0
ATMOSPHERIC SCIENCES	0	0	6	9	7	3	4	**	33.3	**
GEOSCIENCES	283	307	366	343	285	334	342	2.8	2.4	2.7
OCEANOGRAPHY	0	2	13	15	107	116	115	**	-.9	**
ENVIRONMENTAL SCIENCES, N.E.C.	338	419	390	309	264	302	357	-1.9	18.2	.8
MATHEMATICAL/COMPUTER SCIENCES	2,011	1,926	1,910	1,868	1,733	2,599	3,331	4.4	28.2	7.5
COMPUTER SCIENCE	381	504	561	759	729	1,344	1,688	23.4	25.6	23.7
MATHEMATICS AND APPLIED MATHEMATICS	1,583	1,388	1,313	1,087	976	1,215	1,604	-4.3	32.0	.2
STATISTICS	47	34	36	22	28	40	39	-2.7	-2.5	-2.6
LIFE SCIENCES	4,281	4,913	5,880	6,020	5,290	5,296	5,394	3.6	1.9	3.4
AGRICULTURAL SCIENCES	260	276	283	377	295	303	347	2.6	14.5	4.2
BIOLOGICAL SCIENCES	2,587	2,883	3,274	2,759	2,392	2,158	2,090	-3.0	-3.2	-3.0
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	35	29	33	36	6	0	0	-100.0	**	-100.0
BIOLOGY	2,348	2,545	2,858	2,263	1,961	1,913	1,751	-3.4	-8.5	-4.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	21	21	2	0	2	2	3	-32.4	50.0	-24.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	3	6	3	**	-50.0	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	0	0	0	0
MICROBIOLOGY	92	85	100	99	73	63	72	-5.8	14.3	-3.1
NUTRITION	48	57	112	169	140	101	97	17.7	-4.0	14.3
PATHOLOGY	47	140	132	141	179	27	122	-3.8	351.9	14.6
PHARMACOLOGY	0	0	0	0	0	0	0	0	0	0
PHYSIOLOGY	0	0	0	0	0	0	0	0	0	0
ZOOLOGY	8	6	3	4	0	6	0	-4.7	-100.0	-100.0
BIOSCIENCES, N.E.C.	0	0	34	47	28	40	42	**	5.0	**
HEALTH SCIENCES	1,434	1,754	2,323	2,884	2,603	2,835	2,957	12.0	4.3	10.9
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	0	0	0	0	0	0
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	236	295	468	738	560	803	891	22.6	11.0	20.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	40	40	79	96	65	66	73	8.7	10.6	9.0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	605	762	834	903	892	977	878	8.3	-10.1	5.5
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	0	0	0	0	0	0	0	0	0	0
CLINICAL MEDICINE, N.E.C.	0	43	124	179	185	160	151	**	-5.6	**
HEALTH RELATED, N.E.C.	553	614	818	968	901	829	964	7.0	16.3	8.3
PSYCHOLOGY	3,424	3,624	4,243	4,573	3,720	3,871	3,766	2.1	-2.7	1.4
SOCIAL SCIENCES	6,054	6,229	6,784	6,884	5,8[illegible]	5,948	5,780	-.3	-2.8	-.7
AGRICULTURAL ECONOMICS	3	4	3	5	7	4	22	4.9	450.0	32.9
ANTHROPOLOGY	250	269	369	299	255	231	182	-1.3	-21.2	-4.4
ECONOMICS (EXCEPT AGRICULTURAL)	526	426	466	412	328	374	371	-5.5	-.8	-4.9
GEOGRAPHY	413	474	370	273	281	262	301	-7.3	14.9	-4.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	140	161	101	116	109	115	117	-3.2	1.7	-2.5
POLITICAL SCIENCE	2,509	2,983	3,149	3,418	3,166	3,318	3,088	4.8	-6.9	3.0
SOCIOLOGY	543	470	545	357	329	374	353	-6.0	-5.6	-6.0
SOCIOLOGY/ANTHROPOLOGY	37	24	51	43	54	37	23	.0	-37.8	-4.6
SOCIAL SCIENCES, N.E.C.	1,633	1,418	1,730	1,961	1,272	1,233	1,323	-4.6	7.3	-3.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-21. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN PRIVATE MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL FIELDS	8,696	9,207	10,329	10,524	10,747	10,893	11,275	3.8	3.5	3.8
ENGINEERING	1,460	1,336	1,637	1,682	1,599	1,850	1,950	4.0	5.4	4.2
AEROSPACE	5	3	7	4	4	4	5	-3.7	25.0	.0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	21	16	30	8	10	10	14	-11.6	40.0	-5.6
CHEMICAL	42	54	37	49	56	66	64	7.8	-3.0	6.2
CIVIL	77	96	125	118	114	114	115	6.8	.9	5.9
ELECTRICAL	387	370	431	426	423	508	556	4.6	9.4	5.3
ENGINEERING SCIENCE	43	34	107	155	145	195	264	28.7	35.4	29.6
INDUSTRIAL	417	375	471	372	328	380	365	-1.5	-3.9	-1.9
MECHANICAL	269	220	248	380	367	350	337	4.5	-3.7	3.3
METALLURGICAL/MATERIALS	21	17	21	31	33	50	59	15.6	18.0	15.9
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	19	12	14	4	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	159	139	146	135	119	173	171	1.4	-1.2	1.0
PHYSICAL SCIENCES	380	361	351	314	254	225	267	-8.4	18.7	-4.9
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	298	289	256	201	210	196	235	-6.7	19.9	-3.3
PHYSICS	57	53	74	38	44	29	32	-10.7	10.3	-7.9
PHYSICAL SCIENCES, N.E.C.	25	19	21	75	0	0	0	-100.0	**	-100.0
ENVIRONMENTAL SCIENCES	19	17	45	50	46	57	45	20.1	-21.1	13.1
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	1	1	0	0	0	0	0	-100.0	**	-100.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	18	16	45	50	46	57	45	21.2	-21.1	14.0
MATHEMATICAL/COMPUTER SCIENCES	936	939	1,182	905	972	1,154	1,393	3.6	20.7	5.8
COMPUTER SCIENCE	695	691	907	662	762	963	1,210	5.6	25.6	8.2
MATHEMATICS AND APPLIED MATHEMATICS	134	106	119	76	87	106	94	-3.8	-11.3	-4.9
STATISTICS	107	142	156	167	123	85	89	-3.8	4.7	-2.6
LIFE SCIENCES	1,464	1,450	1,723	1,666	1,851	1,865	2,198	4.1	17.9	6.0
AGRICULTURAL SCIENCES	0	0	19	0	0	0	1	**	**	**
BIOLOGICAL SCIENCES	798	744	865	874	818	676	665	-2.7	-1.6	-2.6
ANATOMY	0	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	69	68	51	25	24	20	16	-18.6	-20.0	-18.8
BIOLOGY	529	505	562	611	557	395	395	-4.8	.0	-4.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	1	1	4	8	6	7	8	38.3	14.3	34.6
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	53	38	39	25	**	-35.9	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	29	19	14	5	4	3	3	-31.5	.0	-27.7
MICROBIOLOGY	58	50	66	65	66	72	49	3.7	-31.9	-2.4
NUTRITION	0	0	0	0	23	39	65	**	66.7	**
PATHOLOGY	11	8	19	11	13	16	16	6.4	.0	5.5
PHARMACOLOGY	0	0	2	6	8	10	10	**	.0	**
PHYSIOLOGY	51	53	49	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	1	2	1	4	0	14	14	55.2	.0	45.8
BIOSCIENCES, N.E.C.	49	38	97	86	79	61	64	3.7	4.9	3.9
HEALTH SCIENCES	666	706	839	792	1,033	1,189	1,532	10.1	28.8	12.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	3	8	31	**	287.5	**
DENTISTRY	0	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	7	7	0	0	**	**	**
NURSING	112	142	160	262	324	427	636	25.0	48.9	28.2
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	0	16	10	11	10	10	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0	0
PSYCHIATRY	0	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	86	92	124	155	97	111	85	4.3	-23.4	-.2
SURGERY	0	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	10	7	5	3	3	1	3	-31.9	200.0	-15.8
CLINICAL MEDICINE, N.E.C.	7	15	16	24	140	139	150	64.6	7.9	54.9
HEALTH RELATED, N.E.C.	451	450	518	331	448	493	617	1.5	25.2	4.6
PSYCHOLOGY	1,455	1,588	1,883	2,112	2,393	2,577	2,627	10.0	1.9	8.8
SOCIAL SCIENCES	2,982	3,516	3,508	3,795	3,632	3,165	2,795	1.0	-11.7	-.9
AGRICULTURAL ECONOMICS	0	0	0	0	0	0	0	0	0	0
ANTHROPOLOGY	3	4	3	6	4	3	0	.0	-100.0	-100.0
ECONOMICS (EXCEPT AGRICULTURAL)	174	135	138	196	247	265	320	7.3	20.8	9.1
GEOGRAPHY	3	2	11	5	2	2	1	-6.5	-50.0	-14.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	93	96	133	0	0	0	0	-100.0	**	-100.0
POLITICAL SCIENCE	1,759	1,695	2,260	2,241	2,160	1,846	1,468	-.8	-20.5	-2.6
SOCIOLOGY	125	116	107	132	107	96	70	-4.3	-27.1	-7.9
SOCIOLOGY/ANTHROPOLOGY	0	0	1	0	1	1	23	**	2200.0	**
SOCIAL SCIENCES, N.E.C.	825	1,468	855	1,215	1,111	952	913	2.4	-4.1	1.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-22. — MALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	18,971	21,169	19,029	17,658	17,884	18,601	-1.2	4.0	-.3
ENGINEERING	2,927	3,626	3,636	3,480	4,202	4,374	7.5	4.1	6.9
AEROSPACE	16	13	4	4	4	5	-24.2	25.0	-17.6
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	16	27	16	28	25	26	9.3	4.0	8.4
CHEMICAL	86	96	115	67	127	153	8.1	20.5	10.1
CIVIL	488	625	560	602	754	596	9.1	-21.0	3.4
ELECTRICAL	617	839	754	792	941	1,099	8.8	16.8	10.1
ENGINEERING SCIENCE	34	103	146	142	183	225	40.0	23.0	37.0
INDUSTRIAL	539	608	414	421	537	528	-.1	-1.7	-.3
MECHANICAL	378	470	574	594	592	538	9.4	-9.1	6.1
METALLURGICAL/MATERIALS	35	51	71	48	49	60	7.0	22.4	9.4
MINING	0	0	0	0	1	3	**	200.0	**
NUCLEAR	11	12	4	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	707	782	978	782	989	1,141	6.9	15.4	8.3
PHYSICAL SCIENCES	898	1,006	691	682	619	678	-7.2	9.5	-4.6
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	625	652	470	456	361	462	-10.4	28.0	-4.9
PHYSICS	213	268	156	158	140	138	-8.1	-1.4	-7.0
PHYSICAL SCIENCES, N.E.C.	60	86	65	68	118	78	14.5	-33.9	4.5
ENVIRONMENTAL SCIENCES	567	628	539	529	591	643	.8	8.8	2.1
ATMOSPHERIC SCIENCES	0	6	8	7	3	4	**	33.3	**
GEOSCIENCES	243	292	255	224	257	264	1.1	2.7	1.4
OCEANOGRAPHY	1	9	11	78	82	80	141.4	-2.4	107.6
ENVIRONMENTAL SCIENCES, N.E.C.	323	321	265	220	249	295	-5.1	18.5	-1.5
MATHEMATICAL/COMPUTER SCIENCES	2,057	2,256	1,868	1,812	2,458	3,100	3.6	26.1	7.1
COMPUTER SCIENCE	1,009	1,231	1,090	1,064	1,600	2,027	9.7	26.7	12.3
MATHEMATICS AND APPLIED MATHEMATICS	910	881	648	647	766	982	-3.4	28.2	1.3
STATISTICS	138	144	130	101	92	91	-7.8	-1.1	-6.7
LIFE SCIENCES	3,332	3,816	3,080	2,851	2,467	2,649	-5.8	7.4	-3.8
AGRICULTURAL SCIENCES	232	262	320	247	257	294	2.1	14.4	4.0
BIOLOGICAL SCIENCES	2,351	2,547	1,983	1,735	1,445	1,346	-9.3	-6.9	-8.9
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	75	59	46	21	10	7	-33.2	-30.0	-32.6
BIOLOGY	2,017	2,193	1,688	1,467	1,241	1,121	-9.3	-9.7	-9.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	16	5	6	3	5	3	-20.8	-40.0	-24.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	18	25	18	17	**	-5.6	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	0	0	0	**	**	**
MICROBIOLOGY	75	87	84	67	72	59	-.8	-18.1	-3.9
NUTRITION	3	9	7	12	5	8	10.8	60.0	17.8
PATHOLOGY	79	81	65	83	23	71	-21.9	208.7	-1.8
PHARMACOLOGY	0	1	4	5	3	3	**	.0	**
PHYSIOLOGY	53	49	0	0	0	0	-100.0	**	-100.0
ZOOLOGY	5	3	8	0	10	7	14.9	-30.0	5.8
BIOSCIENCES, N.E.C.	28	60	57	52	58	50	15.7	-13.8	10.1
HEALTH SCIENCES	749	1,007	777	869	765	1,009	.4	31.9	5.1
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	4	12	**	200.0	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	5	5	0	0	**	**	**
NURSING	35	44	42	37	56	71	9.9	26.8	12.5
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	13	8	9	6	6	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	4	34	24	11	10	14	20.1	40.0	23.2
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	108	172	124	93	73	90	-7.5	23.3	-3.0
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	4	3	3	3	0	3	-100.0	**	-4.7
CLINICAL MEDICINE, N.E.C.	25	50	58	72	83	94	27.1	13.3	24.7
HEALTH RELATED, N.E.C.	573	691	513	639	533	719	-1.4	34.9	3.9
PSYCHOLOGY	2,646	2,923	2,832	2,638	2,512	2,398	-1.0	-4.5	-1.6
SOCIAL SCIENCES	6,544	6,914	6,383	5,666	5,035	4,759	-5.1	-5.5	-5.2
AGRICULTURAL ECONOMICS	4	3	5	6	4	20	.0	400.0	30.8
ANTHROPOLOGY	111	164	100	111	92	76	-3.7	-17.4	-6.1
ECONOMICS (EXCEPT AGRICULTURAL)	453	489	437	410	430	457	-1.0	6.3	.1
GEOGRAPHY	349	282	191	181	178	205	-12.6	15.2	-8.5
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	148	116	18	23	23	20	-31.1	-13.0	-28.4
POLITICAL SCIENCE	3,453	3,930	3,671	3,435	3,009	2,662	-2.7	-11.5	-4.2
SOCIOLOGY	293	319	238	212	166	203	-10.7	22.3	-5.9
SOCIOLOGY/ANTHROPOLOGY	11	42	23	27	23	25	15.9	8.7	14.7
SOCIAL SCIENCES, N.E.C.	1,722	1,569	1,700	1,261	1,110	1,091	-8.4	-1.7	-7.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-23. — FEMALE PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1976-77 AND 1979-82

FIELD	NUMBER						AVERAGE ANNUAL PERCENT CHANGE		
	1976	1977	1979	1980	1981	1982	1976-81	1981-82	1976-82
TOTAL, ALL FIELDS	10,230	11,874	14,619	13,088	14,950	15,384	7.9	2.9	7.0
ENGINEERING	200	203	425	270	451	483	17.7	7.1	15.8
AEROSPACE	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	3	10	3	6	3	**	-50.0	**
CHEMICAL	15	4	19	10	24	22	9.9	-8.3	6.6
CIVIL	60	65	105	93	60	53	.0	-11.7	-2.0
ELECTRICAL	14	19	29	22	58	69	32.9	19.0	30.5
ENGINEERING SCIENCE	0	5	11	4	13	40	**	207.7	**
INDUSTRIAL	20	49	69	57	91	94	35.4	3.3	29.4
MECHANICAL	9	12	32	28	28	29	25.5	3.6	21.5
METALLURGICAL/MATERIALS	1	8	14	5	11	9	61.5	-18.2	44.2
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	1	2	0	0	0	0	-100.0	**	-100.0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	80	36	136	48	160	164	14.9	2.5	12.7
PHYSICAL SCIENCES	246	275	347	213	275	303	2.3	10.2	3.5
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	195	211	226	157	185	222	-1.0	20.0	2.2
PHYSICS	26	33	40	27	23	22	-2.4	-4.3	-2.7
PHYSICAL SCIENCES, N.E.C.	25	31	81	29	67	59	21.8	-11.9	15.4
ENVIRONMENTAL SCIENCES	178	192	187	180	221	220	4.4	-.5	3.6
ATMOSPHERIC SCIENCES	0	0	1	0	0	0	**	**	**
GEOSCIENCES	65	74	88	61	77	78	3.4	1.3	3.1
OCEANOGRAPHY	1	4	4	29	34	35	102.4	2.9	80.9
ENVIRONMENTAL SCIENCES, N.E.C.	112	114	94	90	110	107	-.4	-2.7	-.8
MATHEMATICAL/COMPUTER SCIENCES	808	836	905	893	1,295	1,624	9.9	25.4	12.3
COMPUTER SCIENCE	186	237	331	427	707	871	30.6	23.2	29.3
MATHEMATICS AND APPLIED MATHEMATICS	584	551	515	416	555	716	-1.0	29.0	3.5
STATISTICS	38	48	59	50	33	37	-2.8	12.1	-.4
LIFE SCIENCES	3,031	3,787	4,606	4,290	4,694	4,943	9.1	5.3	8.5
AGRICULTURAL SCIENCES	44	40	57	48	46	54	.9	17.4	3.5
BIOLOGICAL SCIENCES	1,276	1,592	1,650	1,475	1,389	1,409	1.7	1.4	1.7
ANATOMY	0	0	0	0	0	0	0	0	0
BIOCHEMISTRY	22	25	15	9	10	9	-14.6	-10.0	-13.8
BIOLOGY	1,033	1,227	1,186	1,051	1,067	1,025	.6	-3.9	-.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	6	1	2	5	4	8	-7.8	100.0	4.9
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	35	16	27	11	**	-59.3	**
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	19	14	5	4	3	3	-30.9	.0	-26.5
MICROBIOLOGY	60	79	80	72	63	62	1.0	-1.6	.5
NUTRITION	54	103	162	151	135	154	20.1	14.1	19.1
PATHOLOGY	69	70	87	109	20	67	-21.9	235.0	-.5
PHARMACOLOGY	0	1	2	3	7	7	**	.0	**
PHYSIOLOGY	0	0	0	0	0	0	0	0	0
ZOOLOGY	3	1	0	0	10	7	27.2	-30.0	15.2
BIOSCIENCES, N.E.C.	10	71	76	55	43	56	33.9	30.2	33.3
HEALTH SCIENCES	1,711	2,155	2,899	2,767	3,259	3,480	13.8	6.8	12.6
ANESTHESIOLOGY	0	0	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	3	4	19	**	375.0	**
DENTISTRY	0	0	0	0	0	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	2	2	0	0	**	**	**
NURSING	402	584	958	847	1,174	1,456	23.9	24.0	23.9
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	0	3	2	2	4	4	**	.0	**
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	36	45	72	54	56	59	9.2	5.4	8.6
PSYCHIATRY	0	0	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	746	786	934	896	1,015	873	6.4	-14.0	2.7
SURGERY	0	0	0	0	0	0	0	0	0
VETERINARY SCIENCES	3	2	0	0	1	0	-19.7	-100.0	-100.0
CLINICAL MEDICINE, N.E.C.	33	90	145	253	216	207	45.6	-4.2	35.8
HEALTH RELATED, N.E.C.	491	645	786	710	789	862	10.0	9.3	9.8
PSYCHOLOGY	2,566	3,203	3,853	3,475	3,936	3,995	8.9	1.5	7.7
SOCIAL SCIENCES	3,201	3,378	4,296	3,767	4,078	3,816	5.0	-6.4	3.0
AGRICULTURAL ECONOMICS	0	0	0	1	0	2	**	**	**
ANTHROPOLOGY	162	208	205	148	142	106	-2.6	-25.4	-6.8
ECONOMICS (EXCEPT AGRICULTURAL)	108	115	171	165	209	234	14.1	12.0	13.8
GEOGRAPHY	127	99	87	102	86	97	-7.5	12.8	-4.4
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	109	118	98	86	92	97	-3.3	5.4	-1.9
POLITICAL SCIENCE	1,225	1,479	1,988	1,891	2,155	1,894	12.0	-12.1	7.5
SOCIOLOGY	293	333	251	224	304	220	.7	-27.6	-4.7
SOCIOLOGY/ANTHROPOLOGY	13	10	20	28	15	21	2.9	40.0	8.3
SOCIAL SCIENCES, N.E.C.	1,164	1,016	1,476	1,122	1,075	1,145	-1.6	6.5	-.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE D-24. -- PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN MASTER'S-GRANTING INSTITUTIONS BY GEOGRAPHIC DISTRIBUTION: 1975-77 AND 1979-82

DIVISION AND STATE	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1975	1976	1977	1979	1980	1981	1982	1975-81	1981-82	1975-82
TOTAL, ALL INSTITUTIONS	27,437	29,201	33,043	33,648	30,746	32,834	33,985	3.0	3.5	3.1
NEW ENGLAND	2,108	1,916	2,861	3,624	3,871	3,567	3,896	9.2	9.2	9.2
CONNECTICUT	1,288	1,235	1,816	2,401	2,418	2,159	2,590	9.0	20.0	10.5
MAINE	0	0	0	0	0	0	0	**	**	**
MASSACHUSETTS	648	533	899	1,079	1,286	1,265	1,150	11.8	-9.1	8.5
NEW HAMPSHIRE	79	64	52	41	67	38	55	-11.5	44.7	-5.0
RHODE ISLAND	50	46	52	76	99	105	101	13.2	-3.8	10.6
VERMONT	43	38	42	27	1	0	0	-100.0	**	-100.0
MIDDLE ATLANTIC	7,584	7,587	7,885	6,915	5,513	6,311	6,651	-3.0	5.4	-1.9
NEW JERSEY	2,692	2,589	2,539	1,347	966	961	925	-15.8	-3.7	-14.2
NEW YORK	3,776	3,331	3,693	3,800	3,014	3,608	4,012	-.8	11.2	.9
PENNSYLVANIA	1,116	1,667	1,653	1,768	1,533	1,742	1,714	7.7	-1.6	6.3
EAST NORTH CENTRAL	3,598	3,866	3,702	3,336	3,496	3,640	3,831	.2	5.2	.9
ILLINOIS	2,256	2,574	2,250	2,301	2,210	2,234	2,386	-.2	6.8	.8
INDIANA	208	211	375	334	344	310	357	6.9	15.2	8.0
MICHIGAN	310	262	280	278	355	434	396	5.8	-8.8	3.6
OHIO	526	534	480	162	201	181	178	-16.3	-1.7	-14.3
WISCONSIN	298	285	317	261	386	481	514	8.3	6.9	8.1
WEST NORTH CENTRAL	594	615	693	819	985	909	901	7.3	-.9	6.1
IOWA	94	97	143	106	118	112	89	3.0	-20.5	-.8
KANSAS	220	238	200	241	379	395	302	10.2	-23.5	4.6
MINNESOTA	213	170	203	302	277	207	294	-.5	42.0	4.7
MISSOURI	61	104	137	164	201	193	214	21.2	10.9	19.6
NEBRASKA	6	6	10	6	10	2	2	-16.7	.0	-14.5
NORTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH DAKOTA	0	0	0	0	0	0	0	**	**	**
SOUTH ATLANTIC	2,930	3,055	3,138	3,877	3,084	3,556	3,484	3.3	-2.0	2.5
DELAWARE	0	0	0	0	0	0	0	**	**	**
DISTRICT OF COLUMBIA	36	37	38	35	35	36	64	.0	77.8	8.6
FLORIDA	691	693	828	945	714	566	479	-3.3	-15.4	-5.1
GEORGIA	191	230	202	304	246	238	287	3.7	20.6	6.0
MARYLAND	995	934	842	1,619	1,492	1,600	1,556	8.2	-2.8	6.6
NORTH CAROLINA	244	242	332	165	260	294	343	3.2	16.7	5.0
SOUTH CAROLINA	77	76	66	103	100	109	120	6.0	10.1	6.5
VIRGINIA	337	480	492	590	237	206	150	-7.9	-27.2	-10.9
WEST VIRGINIA	359	363	338	116	0	507	485	5.9	-4.3	4.4
EAST SOUTH CENTRAL	855	783	915	1,298	963	1,179	1,107	5.5	-6.1	3.8
ALABAMA	119	102	143	281	220	228	238	11.4	4.4	10.4
KENTUCKY	186	148	204	360	318	355	313	11.4	-11.8	7.7
MISSISSIPPI	91	134	157	140	117	109	122	3.1	11.9	4.3
TENNESSEE	459	399	411	517	308	487	434	1.0	-10.9	-.8
WEST SOUTH CENTRAL	1,791	2,057	2,399	2,739	2,735	2,669	3,025	6.9	13.3	7.8
ARKANSAS	160	258	191	269	254	260	291	8.4	11.9	8.9
LOUISIANA	172	162	154	139	136	240	281	5.7	17.1	7.3
OKLAHOMA	25	24	43	87	85	69	61	18.4	-11.6	13.6
TEXAS	1,434	1,613	2,011	2,244	2,260	2,100	2,392	6.6	13.9	7.6
MOUNTAIN	29	25	93	182	212	296	197	47.3	-33.4	31.5
ARIZONA	0	0	0	0	0	0	0	**	**	**
COLORADO	4	4	7	9	22	25	24	35.7	-4.0	29.2
IDAHO	0	0	0	0	0	0	0	**	**	**
MONTANA	5	1	0	2	3	3	8	-8.2	166.7	6.9
NEVADA	0	0	0	101	117	122	94	**	-23.0	**
NEW MEXICO	20	20	86	70	70	146	71	39.3	-51.4	19.8
UTAH	0	0	0	0	0	0	0	**	**	**
WYOMING	0	0	0	0	0	0	0	**	**	**
PACIFIC	7,935	9,284	11,343	10,337	9,862	10,589	10,862	5.1	1.6	4.6
ALASKA	47	75	168	149	168	169	159	23.8	-5.9	19.0
CALIFORNIA	7,334	8,597	10,741	10,034	9,069	9,885	10,162	5.1	2.8	4.8
HAWAII	0	0	0	0	0	0	0	**	**	**
OREGON	62	69	84	74	120	127	90	12.7	-29.1	5.5
WASHINGTON	492	543	350	580	505	508	451	.5	-11.2	-1.2
OUTLYING AREAS	13	13	14	21	25	18	31	5.6	72.2	13.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-1. — SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT DOCTORATE-GRANTING INSTITUTIONS BY FIELD: 1975-82

FIELD	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL, ALL FIELDS	7,659	7,759	7,988	8,202	8,341	8,529	8,448	8,346
ENGINEERING	1,013	1,009	1,016	1,027	1,031	1,047	1,051	1,064
AEROSPACE	39	38	38	37	36	36	35	35
AGRICULTURAL	41	40	40	39	38	38	38	38
BIOMEDICAL	36	37	38	40	38	37	39	39
CHEMICAL	120	119	118	117	118	122	121	124
CIVIL	156	155	158	160	163	167	167	169
ELECTRICAL	148	146	146	147	150	153	154	157
ENGINEERING SCIENCE	37	37	38	40	39	39	39	38
INDUSTRIAL	93	93	95	97	97	99	97	100
MECHANICAL	153	151	154	154	154	154	154	155
METALLURGICAL/MATERIALS	67	65	66	66	68	67	68	68
MINING	17	17	17	18	19	21	22	23
NUCLEAR	32	31	30	31	30	29	30	30
PETROLEUM	14	14	13	13	13	15	14	15
ENGINEERING, N.E.C.	60	66	65	68	68	70	73	73
PHYSICAL SCIENCES	520	505	505	514	514	523	523	520
ASTRONOMY	36	32	32	33	32	32	32	32
CHEMISTRY	245	241	240	245	248	252	252	250
PHYSICS	230	228	228	229	229	233	233	233
PHYSICAL SCIENCES, N.E.C.	9	4	5	7	5	6	6	5
ENVIRONMENTAL SCIENCES	258	264	269	276	277	278	280	283
ATMOSPHERIC SCIENCES	24	27	28	29	28	28	29	29
GEOSCIENCES	178	179	176	179	181	181	180	184
OCEANOGRAPHY	31	32	32	32	32	32	34	34
ENVIRONMENTAL SCIENCES, N.E.C.	25	26	33	36	36	37	37	36
MATHEMATICAL/COMPUTER SCIENCES	390	399	403	415	426	454	454	469
COMPUTER SCIENCE	87	91	94	101	108	123	127	137
MATHEMATICS AND APPLIED MATHEMATICS	257	260	260	263	266	276	272	276
STATISTICS	46	48	49	51	52	55	55	56
LIFE SCIENCES	4,162	4,213	4,383	4,502	4,588	4,667	4,580	4,441
AGRICULTURAL SCIENCES	276	276	277	272	275	274	273	277
BIOLOGICAL SCIENCES	1,562	1,558	1,607	1,664	1,727	1,762	1,762	1,767
ANATOMY	103	103	106	113	118	120	119	123
BIOCHEMISTRY	157	156	160	170	176	174	176	178
BIOLOGY	195	196	197	204	211	217	218	217
BIOMETRY/EPIDEMIOLOGY	37	37	43	43	41	45	42	40
BIOPHYSICS	36	33	35	37	39	39	37	35
BOTANY	112	112	109	108	108	108	107	109
CELL BIOLOGY	32	32	34	36	38	40	44	49
ECOLOGY	14	17	19	20	20	21	22	22
ENTOMOLOGY/PARASITOLOGY	49	49	48	49	48	48	48	47
GENETICS	51	51	54	55	58	57	59	59
MICROBIOLOGY	197	199	211	214	227	236	235	231
NUTRITION	75	75	78	81	87	90	92	93
PATHOLOGY	148	147	151	156	156	164	161	156
PHARMACOLOGY	154	154	164	172	178	180	176	177
PHYSIOLOGY	127	123	127	132	141	143	142	147
ZOOLOGY	65	64	61	61	63	59	58	59
BIOSCIENCES, N.E.C.	10	10	10	13	18	21	26	25
HEALTH SCIENCES	2,324	2,379	2,499	2,566	2,586	2,631	2,545	2,397
ANESTHESIOLOGY	96	94	99	98	98	98	94	88
CANCER/ONCOLOGY	18	20	22	22	24	25	26	24
CARDIOLOGY	97	98	98	98	92	93	89	83
DENTISTRY	58	72	105	110	107	103	103	92
ENDOCRINOLOGY	92	93	92	92	88	88	83	77
GASTROENTEROLOGY	85	86	86	86	82	82	80	75
HEMATOLOGY	91	90	89	89	87	88	83	79
NEUROLOGY	112	115	116	119	126	126	122	114
NURSING	45	57	78	83	88	97	99	100
OBSTETRICS/GYNECOLOGY	108	107	106	105	106	108	101	94
OPHTHALMOLOGY	98	99	99	100	100	98	94	85
OTORHINOLARYNGOLOGY	93	94	93	93	92	91	86	77
PEDIATRICS	108	109	109	109	109	110	106	105
PHARMACEUTICAL SCIENCES	72	70	81	82	82	83	82	81
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	154	156	162	164	159	166	156	148
PSYCHIATRY	102	103	104	103	108	111	105	98
PULMONARY DISEASE	85	85	84	84	81	80	75	70
RADIOLOGY	124	123	124	126	131	134	130	119
SPEECH PATHOLOGY/AUDIOLOGY	95	90	98	108	115	121	121	121
SURGERY	206	213	216	217	227	241	230	216
VETERINARY SCIENCES	35	35	38	39	38	33	36	34
CLINICAL MEDICINE, N.E.C.	258	270	290	320	322	326	312	290
HEALTH RELATED, N.E.C.	92	100	110	119	124	129	132	127
PSYCHOLOGY	278	285	299	315	318	324	329	330
SOCIAL SCIENCES	1,038	1,084	1,113	1,153	1,187	1,236	1,231	1,239
AGRICULTURAL ECONOMICS	46	46	46	46	46	46	47	48
ANTHROPOLOGY	106	106	106	109	109	113	113	114
ECONOMICS (EXCEPT AGRICULTURAL)	184	185	185	189	190	201	196	193
GEOGRAPHY	87	88	90	94	96	99	99	98
HISTORY AND PHILOSOPHY OF SCIENCE	27	26	26	26	27	26	27	26
LINGUISTICS	58	57	53	54	61	63	63	62
POLITICAL SCIENCE	219	235	246	257	271	286	283	285
SOCIOLOGY	161	166	167	169	173	180	175	175
SOCIOLOGY/ANTHROPOLOGY	26	26	29	32	34	33	34	35
SOCIAL SCIENCES, N.E.C.	124	149	165	177	180	189	194	203

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-2. — SCIENCE/ENGINEERING DEPARTMENTAL POPULATION AT MASTER'S-GRANTING INSTITUTIONS BY FIELD: 1975-77 AND 1979-82

FIELD	1975	1976	1977	1979	1980	1981	1982
TOTAL, ALL FIELDS	1,263	1,299	1,469	1,442	1,396	1,421	1,430
ENGINEERING	127	128	156	147	143	141	146
AEROSPACE	3	3	2	1	1	1	1
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	2	2	2	3	3	3	3
CHEMICAL	6	6	7	8	6	6	6
CIVIL	18	19	27	25	25	24	24
ELECTRICAL	21	21	27	26	27	25	29
ENGINEERING SCIENCE	5	5	7	6	6	6	6
INDUSTRIAL	19	19	23	20	22	25	26
MECHANICAL	19	19	23	21	19	16	16
METALLURGICAL/MATERIALS	5	5	6	5	4	5	5
MINING	5	5	3	3	3	3	3
NUCLEAR	2	2	2	1	0	0	0
PETROLEUM	1	1	1	1	1	1	1
ENGINEERING, N.E.C.	21	21	26	27	26	26	26
PHYSICAL SCIENCES	177	180	190	172	157	153	153
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	108	109	114	105	97	95	94
PHYSICS	56	57	61	56	51	48	48
PHYSICAL SCIENCES, N.E.C.	13	14	15	11	9	10	11
ENVIRONMENTAL SCIENCES	46	50	54	53	55	55	57
ATMOSPHERIC SCIENCES	0	0	1	1	1	1	1
GEOSCIENCES	29	30	31	29	29	28	29
OCEANOGRAPHY	1	3	2	2	3	3	3
ENVIRONMENTAL SCIENCES, N.E.C.	16	17	20	21	22	23	24
MATHEMATICAL/COMPUTER SCIENCES	153	157	173	167	157	162	158
COMPUTER SCIENCE	24	26	32	32	30	37	37
MATHEMATICS AND APPLIED MATHEMATICS	126	127	137	130	123	122	118
STATISTICS	3	4	4	5	4	3	3
LIFE SCIENCES	287	296	346	354	350	367	376
AGRICULTURAL SCIENCES	16	17	18	24	23	24	23
BIOLOGICAL SCIENCES	196	196	224	216	206	207	206
ANATOMY	0	0	0	0	0	0	0
BIOCHEMISTRY	5	5	7	6	3	2	2
BIOLOGY	156	157	174	171	162	161	159
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	1	0	0	0	0	0	0
BOTANY	7	7	6	4	4	4	4
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	0	0	0	2	2	2	2
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	1	1	1	1	1	1	1
MICROBIOLOGY	6	6	8	8	8	8	7
NUTRITION	5	6	9	8	11	12	13
PATHOLOGY	4	4	6	4	4	4	4
PHARMACOLOGY	1	1	1	1	1	1	1
PHYSIOLOGY	1	1	1	0	0	0	0
ZOOLOGY	4	4	4	4	4	5	5
BIOSCIENCES, N.E.C.	5	4	7	7	6	7	8
HEALTH SCIENCES	75	83	104	114	121	136	147
ANESTHESIOLOGY	0	0	0	0	0	0	0
CANCER/ONCOLOGY	0	0	0	0	0	0	0
CARDIOLOGY	0	0	0	0	1	1	1
DENTISTRY	3	3	3	0	0	0	0
ENDOCRINOLOGY	0	0	0	0	0	0	0
GASTROENTEROLOGY	0	0	0	0	0	0	0
HEMATOLOGY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	1	1	1	1
NURSING	10	14	17	18	17	23	26
OBSTETRICS/GYNECOLOGY	0	0	0	0	0	0	0
OPHTHALMOLOGY	0	0	0	0	0	0	0
OTORHINOLARYNGOLOGY	0	0	0	0	0	0	0
PEDIATRICS	0	0	0	0	0	0	0
PHARMACEUTICAL SCIENCES	3	2	4	4	4	4	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	1	1	3	3	3	3	4
PSYCHIATRY	0	0	0	0	0	0	0
PULMONARY DISEASE	0	0	0	0	0	0	0
RADIOLOGY	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	32	34	43	48	49	54	54
SURGERY	0	0	0	0	0	0	0
VETERINARY SCIENCES	1	1	1	1	1	1	1
CLINICAL MEDICINE, N.E.C.	1	2	4	6	8	8	9
HEALTH RELATED, N.E.C.	24	26	29	33	37	41	47
PSYCHOLOGY	149	153	167	179	175	184	188
SOCIAL SCIENCES	324	335	383	370	359	359	352
AGRICULTURAL ECONOMICS	2	2	2	2	3	3	3
ANTHROPOLOGY	12	12	15	15	12	12	11
ECONOMICS (EXCEPT AGRICULTURAL)	53	53	55	50	44	42	41
GEOGRAPHY	28	28	31	27	27	26	26
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	7	7	6	4	4	4	4
POLITICAL SCIENCE	107	115	132	124	122	130	123
SOCIOLOGY	43	44	50	54	51	49	46
SOCIOLOGY/ANTHROPOLOGY	9	9	8	6	6	6	6
SOCIAL SCIENCES, N.E.C.	63	65	84	88	90	87	92

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

	INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
	TOTAL, ALL INSTITUTIONS	347,414	237,676	109,738	19,733
1	UNIVERSITY OF SOUTHERN CALIFORNIA	7,651	3,209	4,442	208
2	UNIVERSITY OF CALIF AT BERKELEY	5,400	5,400	0	380
3	UNIVERSITY OF WISCONSIN - MADISON	5,346	4,715	631	362
4	UNIVERSITY OF MINNESOTA	5,203	4,295	908	360
5	OHIO STATE UNIVERSITY	4,708	3,875	833	204
6	UNIVERSITY OF PITTSBURGH	4,643	2,391	2,252	121
7	UNIVERSITY OF ILLINOIS - URBANA	4,494	4,243	251	263
8	UNIVERSITY OF MICHIGAN	4,319	3,844	475	258
9	UNIV OF TEXAS AT AUSTIN	4,301	3,599	702	211
10	PURDUE UNIVERSITY	4,192	3,128	1,064	184
	TOTAL, 1ST 10 INSTS.	50,257	38,699	11,558	2,553
11	UNIVERSITY OF CALIF AT LOS ANGELES	4,160	3,968	172	464
12	RUTGERS THE STATE UNIVERSITY	4,078	1,719	2,359	105
13	STANFORD UNIVERSITY	4,026	3,598	428	502
14	UNIVERSITY OF WASHINGTON	3,899	2,818	1,081	469
15	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,886	3,688	198	402
16	TEXAS A & M UNIVERSITY	3,679	2,912	767	122
17	UNIVERSITY OF COLORADO	3,501	2,625	876	269
18	PENNSYLVANIA STATE UNIVERSITY	3,489	2,653	836	82
19	NORTHEASTERN UNIVERSITY	3,399	949	2,450	29
20	GEORGE WASHINGTON UNIVERSITY	3,308	774	2,534	11
	TOTAL, 1ST 20 INSTS.	87,662	64,403	23,259	5,008
21	NEW YORK UNIVERSITY	3,296	1,310	1,986	180
22	UNIVERSITY OF ARIZONA	3,236	2,446	790	176
23	COLUMBIA UNIV MAIN DIVISION	3,159	2,300	859	356
24	MICHIGAN STATE UNIVERSITY	3,079	2,478	601	151
25	HARVARD UNIVERSITY	3,071	2,962	109	1,294
26	CORNELL UNIVERSITY	3,011	2,999	12	368
27	UNIVERSITY OF MARYLAND - COLLEGE PARK	2,996	1,732	1,264	152
28	UNIVERSITY OF TENNESSEE AT KNOXVILLE	2,826	1,844	982	70
29	UNIVERSITY OF FLORIDA	2,812	2,327	485	174
30	UNIVERSITY OF CALIF AT DAVIS	2,790	2,677	113	155
	TOTAL, 1ST 30 INSTS.	117,938	87,478	30,460	8,084
31	FLORIDA INSTITUTE OF TECHNOLOGY	2,720	588	2,132	0
32	UNIVERSITY OF PENNSYLVANIA	2,642	2,036	606	340
33	IOWA STATE UNIVERSITY OF SCI & TECH	2,581	2,068	513	45
34	UNIV OF NORTH CAROLINA AT CHAPEL HILL	2,553	2,301	252	195
35	BOSTON UNIVERSITY	2,528	1,672	856	49
36	NORTH CAROLINA STATE UNIV AT RALEIGH	2,527	2,051	476	74
37	WEST VIRGINIA UNIVERSITY	2,456	1,159	1,297	34
38	ARIZONA STATE UNIVERSITY	2,424	1,387	1,037	63
39	UNIVERSITY OF CINCINNATI	2,422	1,396	1,026	56
40	UNIVERSITY OF CONNECTICUT	2,396	1,953	443	122
	TOTAL, 1ST 40 INSTS.	143,187	104,089	39,098	9,062
41	VIRGINIA POLYTECHNIC INST AND STATE UNIV	2,373	1,848	525	48
42	SUNY - BUFFALO	2,296	1,528	768	117
43	INDIANA UNIVERSITY, ALL CAMPUSES	2,273	1,630	643	241
44	SUNY - STONY BROOK	2,261	1,634	627	189
45	UNIVERSITY OF KANSAS	2,257	1,969	288	117
46	SYRACUSE UNIVERSITY	2,172	1,197	975	48
47	UNIVERSITY OF MASSACHUSETTS AT AMHERST	2,162	1,541	621	90
48	WAYNE STATE UNIVERSITY	2,124	1,235	889	47
49	LONG ISLAND UNIVERSITY	2,096	339	1,757	1
50	GEORGIA INSTITUTE OF TECHNOLOGY	2,079	1,600	479	37
	TOTAL, 1ST 50 INSTS.	165,280	118,610	46,670	9,997
51	SAN DIEGO STATE UNIVERSITY	2,068	1,188	880	14
52	UNIVERSITY OF MISSOURI - COLUMBIA	2,060	1,464	596	76
53	UNIVERSITY OF HAWAII AT MANOA	2,053	1,758	295	38
54	UNIVERSITY OF IOWA	2,031	1,628	403	207
55	UNIVERSITY OF OKLAHOMA	1,993	1,378	615	82
56	UNIVERSITY OF UTAH	1,951	1,460	491	127
57	NEW SCHOOL FOR SOCIAL RESEARCH	1,923	356	1,567	0
58	UNIVERSITY OF GEORGIA	1,870	1,637	233	90
59	UNIV OF TEXAS AT ARLINGTON	1,863	926	937	14
60	COLORADO STATE UNIVERSITY	1,831	1,385	446	90
	TOTAL, 1ST 60 INSTS.	184,923	131,790	53,133	10,735

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
61 CUNY GRADUATE SCHOOL AND UNIV CENTER	1,830	1,698	132	48
62 LOUISIANA STATE UNIVERSITY SYSTEM	1,823	1,427	396	89
63 UNIVERSITY OF SOUTH CAROLINA	1,814	1,075	739	44
64 UNIVERSITY OF WISCONSIN - MILWAUKEE	1,789	985	804	18
65 UNIVERSITY OF KENTUCKY	1,772	1,261	511	92
66 ILLINOIS INSTITUTE OF TECHNOLOGY	1,737	475	1,262	28
67 CASE WESTERN RESERVE UNIVERSITY	1,736	1,174	562	195
68 CATHOLIC UNIVERSITY OF AMERICA	1,713	712	1,001	19
69 AMERICAN UNIVERSITY	1,705	530	1,175	15
70 RENSSELAER POLYTECHNIC INSTITUTE	1,695	1,270	425	43
TOTAL, 1ST 70 INSTS.	202,537	142,397	60,140	11,326
71 COLUMBIA UNIV TEACHERS COLLEGE	1,690	700	990	0
72 YALE UNIVERSITY	1,686	1,638	48	577
73 TEXAS WOMAN'S UNIVERSITY	1,680	637	1,043	1
74 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	1,661	1,190	471	30
75 FLORIDA STATE UNIVERSITY	1,650	1,188	462	61
76 OREGON STATE UNIVERSITY	1,622	1,454	168	46
77 NORTHWESTERN UNIVERSITY	1,590	1,441	149	160
78 UNIVERSITY OF VIRGINIA	1,529	1,323	206	167
79 UNIVERSITY OF HOUSTON	1,503	771	732	54
80 WESTERN MICHIGAN UNIVERSITY	1,491	651	840	10
TOTAL, 1ST 80 INSTS.	218,639	153,390	65,249	12,432
81 OKLAHOMA STATE UNIVERSITY	1,443	1,257	186	30
82 UNIVERSITY OF NEW MEXICO	1,442	912	530	31
83 JOHNS HOPKINS UNIVERSITY	1,424	1,294	130	389
84 UNIVERSITY OF CHICAGO	1,420	1,392	28	227
85 UNIVERSITY OF NEBRASKA - LINCOLN	1,403	1,106	297	49
86 CUNY HUNTER COLLEGE	1,385	944	441	1
87 WASHINGTON STATE UNIVERSITY	1,374	1,230	144	40
88 VIRGINIA COMMONWEALTH UNIVERSITY	1,370	926	444	105
89 POLYTECHNIC INSTITUTE OF NEW YORK	1,346	191	1,155	0
90 WASHINGTON UNIVERSITY	1,301	1,050	251	325
TOTAL, 1ST 90 INSTS.	232,547	163,692	68,855	13,629
91 FAIRLEIGH DICKINSON UNIVERSITY	1,285	260	1,025	0
92 UNIVERSITY OF LOWELL	1,278	380	898	0
93 KANSAS STATE UNIV OF AGR & APPLIED SCI	1,266	1,008	258	50
94 UNIVERSITY OF CALIF AT SANTA BARBARA	1,228	1,175	53	86
95 STEVENS INSTITUTE OF TECHNOLOGY	1,222	509	713	14
96 TEMPLE UNIVERSITY	1,212	861	351	105
97 UNIVERSITY OF CALIF AT SAN DIEGO	1,210	1,142	68	380
98 UNIVERSITY OF DELAWARE	1,173	734	439	12
99 UNIVERSITY OF SANTA CLARA	1,165	35	1,130	0
100 UTAH STATE UNIVERSITY	1,164	1,004	160	26
TOTAL, 1ST 100 INSTS.	244,750	170,800	73,950	14,302
101 UNIVERSITY OF CALIF AT IRVINE	1,163	1,037	126	122
102 PRINCETON UNIVERSITY	1,131	1,131	0	160
103 SOUTHERN ILLINOIS UNIV AT CARBONDALE	1,127	734	393	0
104 SUNY - BINGHAMTON	1,090	561	529	15
105 CARNEGIE-MELLON UNIVERSITY	1,081	879	202	82
106 UNIVERSITY OF LOUISVILLE	1,070	597	473	24
107 UNIVERSITY OF AKRON	1,061	527	534	12
108 PACE UNIVERSITY	1,058	250	808	0
109 DREXEL UNIVERSITY	1,056	388	668	18
110 CLEMSON UNIVERSITY	1,037	756	281	25
TOTAL, 1ST 110 INSTS.	255,624	177,660	77,964	14,760
111 UNIVERSITY OF ARKANSAS	1,035	809	226	21
112 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	1,031	674	357	3
113 NORTH TEXAS STATE UNIVERSITY	1,020	762	258	28
114 VILLANOVA UNIVERSITY	1,019	168	851	0
115 BRIGHAM YOUNG UNIVERSITY	1,009	712	297	18
116 UNIVERSITY OF ROCHESTER	1,005	859	146	165
117 TEXAS TECH UNIVERSITY	1,004	859	145	37
118 GEORGETOWN UNIVERSITY	998	679	319	31
119 UNIVERSITY OF MISSOURI - ROLLA	995	561	434	8
120 UNIVERSITY OF RHODE ISLAND	993	678	315	15
TOTAL, 1ST 120 INSTS.	265,733	184,421	81,312	15,086

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
121 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	986	646	340	119
122 UNIVERSITY OF MIAMI	961	725	236	46
123 UNIVERSITY OF DENVER	960	723	237	13
124 DE PAUL UNIVERSITY	957	385	572	0
125 UNIVERSITY OF SOUTH FLORIDA	955	556	399	12
126 CALIFORNIA INSTITUTE OF TECHNOLOGY	955	955	0	189
127 US NAVAL POSTGRADUATE SCHOOL	952	952	0	10
128 DUKE UNIVERSITY	950	885	65	50
129 LOMA LINDA UNIVERSITY	947	467	480	38
130 HOWARD UNIVERSITY	932	740	192	38
TOTAL, 1ST 130 INSTS.	275,288	191,455	83,833	15,801
131 UNIVERSITY OF CALIF AT SAN FRANCISCO	931	917	14	549
132 UNIVERSITY OF CALIF AT RIVERSIDE	927	881	46	81
133 AUBURN UNIVERSITY	922	758	164	14
134 OLD DOMINION UNIVERSITY	913	383	530	6
135 SUNY - ALBANY	907	558	349	32
136 OHIO UNIVERSITY	906	791	115	6
137 ADELPHI UNIVERSITY	897	304	593	99
138 WORCESTER POLYTECHNIC INSTITUTE	884	210	674	3
139 NORTHERN ILLINOIS UNIVERSITY	883	506	377	6
140 LOYOLA UNIVERSITY OF CHICAGO	874	426	448	19
TOTAL, 1ST 140 INSTS.	284,332	197,189	87,143	16,616
141 CUNY CITY COLLEGE	868	375	493	33
142 LEHIGH UNIVERSITY	863	506	357	20
143 NEW JERSEY INSTITUTE OF TECHNOLOGY	849	168	681	0
144 TULANE UNIVERSITY OF LOUISIANA	846	658	188	17
145 MISSISSIPPI STATE UNIVERSITY	844	660	184	9
146 CLEVELAND STATE UNIVERSITY	830	241	589	3
147 SOUTHERN METHODIST UNIVERSITY	821	289	532	8
148 NORTHERN ARIZONA UNIVERSITY	814	306	508	1
149 UNIVERSITY OF WYOMING	802	701	101	14
150 MEMPHIS STATE UNIVERSITY	792	440	352	2
TOTAL, 1ST 150 INSTS.	292,661	201,533	91,128	16,723
151 UNIV OF TEXAS AT DALLAS	788	424	364	17
152 GEORGIA STATE UNIVERSITY	783	482	301	10
153 UNIV OF ILLINOIS MED CENTER - CHICAGO	768	423	345	76
154 ST LOUIS UNIVERSITY	765	427	338	83
155 NEW YORK INSTITUTE OF TECHNOLOGY	748	175	573	0
156 BROWN UNIVERSITY	746	693	53	49
157 NEW MEXICO STATE UNIVERSITY	746	553	193	16
158 THE UNIVERSITY OF ALABAMA	743	577	166	12
159 UNIVERSITY OF MARYLAND - BALT PROF SCH	718	330	388	62
160 KENT STATE UNIVERSITY	718	495	223	0
TOTAL, 1ST 160 INSTS.	300,184	206,112	94,072	17,048
161 PORTLAND STATE UNIVERSITY	717	400	317	0
162 NOVA UNIVERSITY	716	415	301	0
163 ST JOHN'S UNIVERSITY	715	227	488	0
164 UNIVERSITY OF CENTRAL FLORIDA	710	280	430	0
165 UNIVERSITY OF OREGON	709	642	67	54
166 UNIVERSITY OF IDAHO	703	477	226	18
167 WICHITA STATE UNIVERSITY	695	312	383	0
168 VANDERBILT UNIVERSITY	689	631	58	146
169 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	685	351	334	0
170 RICE UNIVERSITY	677	648	29	70
TOTAL, 1ST 170 INSTS.	307,200	210,495	96,705	17,336
171 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	635	415	220	51
172 UNIVERSITY OF MISSOURI - KANSAS CITY	633	211	422	0
173 UNIV OF TEXAS AT EL PASO	630	252	378	6
174 WRIGHT STATE UNIVERSITY	629	354	275	19
175 UNIVERSITY OF TOLEDO	623	364	259	1
176 UNIVERSITY OF DAYTON	622	182	440	1
177 US INTERNATIONAL UNIVERSITY	615	339	276	0
178 UNIVERSITY OF NOTRE DAME	611	565	46	31
179 UNIVERSITY OF MISSISSIPPI	599	489	110	26
180 GEORGE MASON UNIVERSITY	599	161	438	0
TOTAL, 1ST 180 INSTS.	313,396	213,827	99,569	17,471

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
181 FORDHAM UNIVERSITY	590	301	289	4
182 NORTH DAKOTA STATE UNIVERSITY	587	493	94	14
183 MARQUETTE UNIVERSITY	575	353	222	8
184 UNIVERSITY OF NEBRASKA - OMAHA	573	220	353	0
185 BALL STATE UNIVERSITY	566	270	296	0
186 AIR FORCE INSTITUTE OF TECHNOLOGY	566	566	0	0
187 TUFTS UNIVERSITY	562	432	130	65
188 COLORADO SCHOOL OF MINES	559	415	144	0
189 UNIVERSITY OF NEW ORLEANS	558	287	271	6
190 UNIVERSITY OF SOUTHWESTERN LOUISIANA	557	403	154	0
TOTAL, 1ST 190 INSTS.	319,089	217,567	101,522	17,568
191 ATLANTA UNIVERSITY	556	417	139	69
192 MIAMI UNIVERSITY	528	432	96	7
193 YESHIVA UNIVERSITY	527	420	107	199
194 UNIVERSITY OF SOUTHERN MISSISSIPPI	510	354	156	5
195 UNIV OF NORTH CAROLINA AT GREENSBORO	506	221	285	0
196 UNIVERSITY OF NEW HAMPSHIRE	501	399	102	5
197 MONTANA STATE UNIVERSITY	498	478	20	22
198 EAST TEXAS STATE UNIVERSITY	487	201	286	0
199 EMORY UNIVERSITY	483	360	123	47
200 UNIVERSITY OF MONTANA	478	423	55	4
TOTAL, 1ST 200 INSTS.	324,163	221,272	102,891	17,926
201 UNIVERSITY OF DETROIT	476	206	270	1
202 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	460	170	290	7
203 HOFSTRA UNIVERSITY	453	313	140	0
204 CENTRAL MICHIGAN UNIVERSITY	449	250	199	0
205 BOWLING GREEN STATE UNIVERSITY	449	366	83	4
206 SAM HOUSTON STATE UNIVERSITY	423	307	116	0
207 SUNY - COLL OF ENV SCIENCE AND FORESTRY	417	305	112	11
208 UNIVERSITY OF MAINE AT ORONO	416	361	55	7
209 UNIVERSITY OF NEVADA AT RENO	413	355	58	14
210 EAST CAROLINA UNIVERSITY	413	262	151	10
TOTAL, 1ST 210 INSTS.	328,532	224,167	104,365	17,980
211 BOSTON COLLEGE	411	347	64	9
212 ILLINOIS STATE UNIVERSITY	407	274	133	4
213 SETON HALL UNIVERSITY	396	118	278	1
214 CARIBBEAN CTR FOR ADV STD	392	280	112	0
215 FLORIDA ATLANTIC UNIVERSITY	392	150	242	3
216 THE FIELDING INSTITUTE	377	377	0	0
217 SOUTH DAKOTA STATE UNIVERSITY	372	228	144	1
218 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	369	277	92	8
219 UNIVERSITY OF CALIF AT SANTA CRUZ	369	369	0	33
220 UNIVERSITY OF NORTH DAKOTA	359	277	82	11
TOTAL, 1ST 220 INSTS.	332,376	226,864	105,512	18,050
221 UNIVERSITY OF ALASKA AT FAIRBANKS	355	271	84	3
222 UNION OF EXPERIMENTNG COLLEGES & UNIVS	332	332	0	0
223 GOLDEN GATE UNIVERSITY	332	52	280	0
224 BRANDEIS UNIVERSITY	325	317	8	70
225 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	323	134	189	11
226 CALIF SCH OF PROF PSYCH - SAN DIEGO	321	250	71	0
227 MICHIGAN TECHNOLOGICAL UNIVERSITY	310	300	10	0
228 OAKLAND UNIVERSITY	305	141	164	8
229 UNIVERSITY OF PUERTO RICO	301	218	83	0
230 CLARKSON COLLEGE OF TECHNOLOGY	299	242	57	23
TOTAL, 1ST 230 INSTS.	335,579	229,121	106,458	18,165
231 LAMAR UNIVERSITY	296	187	109	0
232 COLLEGE OF WILLIAM AND MARY	287	142	145	6
233 DARTMOUTH COLLEGE	281	273	8	30
234 CALIF SCH OF PROF PSYCH - LOS ANGELES	280	244	36	0
235 DUQUESNE UNIVERSITY	279	114	165	3
236 INDIANA STATE UNIVERSITY	279	205	74	4
237 UNIVERSITY OF MISSOURI - ST LOUIS	277	120	157	4
238 RUSH UNIVERSITY	269	134	135	25
239 MARSHALL UNIVERSITY	261	139	122	2
240 STEPHEN F. AUSTIN STATE UNIVERSITY	261	183	78	6
TOTAL, 1ST 240 INSTS.	338,349	230,862	107,487	18,245

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
241 UNIVERSITY OF TULSA	256	139	117	1
242 BAYLOR UNIVERSITY	254	209	45	9
243 HAHNEMANN UNIVERSITY	244	237	7	10
244 UNIVERSITY OF NEBRASKA MEDICAL CENTER	241	124	117	18
245 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	241	155	86	96
246 EAST TENNESSEE STATE UNIVERSITY	237	133	104	3
247 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	236	226	10	148
248 IDAHO STATE UNIVERSITY	236	180	56	0
249 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	236	133	103	0
250 CALIF SCH OF PROF PSYCH - BERKELEY	235	235	0	0
TOTAL, 1ST 250 INSTS.	340,765	232,633	108,132	18,530
251 UNIV OF MED AND DENT OF NEW JERSEY	216	158	58	59
252 SMITH COLLEGE	211	206	5	0
253 SOUTH DAKOTA SCHOOL OF MINES AND TECH	200	142	58	1
254 THE WRIGHT INSTITUTE	195	186	9	0
255 CLARK UNIVERSITY	193	188	5	2
256 UNIVERSITY OF SOUTH ALABAMA	190	117	73	12
257 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	189	81	108	0
258 CALIF SCH OF PROF PSYCH - FRESNO	186	186	0	0
259 NEW YORK MEDICAL COLLEGE	185	61	124	22
260 NEW MEXICO INSTITUTE OF MINING AND TECH	184	184	0	2
TOTAL, 1ST 260 INSTS.	342,714	234,142	108,572	18,628
261 BIOLA UNIVERSITY	182	147	35	0
262 ALFRED UNIVERSITY	178	87	91	0
263 TENNESSEE TECHNOLOGICAL UNIVERSITY	175	113	62	0
264 FULLER THEOLOGICAL SEMINARY	175	174	1	0
265 TEXAS A & I UNIVERSITY	174	131	43	1
266 BRYN MAWR COLLEGE	173	77	96	0
267 LOUISIANA TECH UNIVERSITY	169	129	40	0
268 MEDICAL COLLEGE OF GEORGIA	168	122	46	27
269 WAKE FOREST UNIVERSITY	167	113	54	20
270 TEXAS CHRISTIAN UNIVERSITY	160	91	69	0
TOTAL, 1ST 270 INSTS.	344,435	235,326	109,109	18,676
271 UNIVERSITY OF SOUTH DAKOTA	160	129	31	1
272 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	160	85	75	0
273 UNIV OF TEXAS MED BRANCH AT GALVESTON	157	128	29	63
274 BAYLOR COLLEGE OF MEDICINE	142	139	3	297
275 NORTHEAST LOUISIANA UNIVERSITY	137	96	41	0
276 UNION COLLEGE(NY)	123	29	94	0
277 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	113	77	36	38
278 ROCKEFELLER UNIVERSITY	106	96	10	215
279 WESLEYAN UNIVERSITY	100	100	0	0
280 INSTITUTE OF PAPER CHEMISTRY	99	99	0	1
TOTAL, 1ST 280 INSTS.	345,732	236,304	109,428	19,291
281 WOODS HOLE OCEANOGRAPHIC INSTITUTION	98	98	0	13
282 THE MEDICAL COLLEGE OF PENNSYLVANIA	95	29	66	14
283 MEDICAL UNIVERSITY OF SOUTH CAROLINA	93	83	10	37
284 UNIVERSITY OF HEALTH SCIENCES	81	80	1	13
285 SUNY - DOWNSTATE MEDICAL CENTER	80	30	50	16
286 UNIVERSITY OF THE PACIFIC	75	61	14	0
287 OREGON GRADUATE CENTER	74	55	19	10
288 THOMAS JEFFERSON UNIVERSITY	73	58	15	21
289 UNIVERSITY OF NORTHERN COLORADO	72	64	8	0
290 UNIVERSITY OF NORTHERN IOWA	70	43	27	0
TOTAL, 1ST 290 INSTS.	346,543	236,905	109,638	19,415
291 CREIGHTON UNIVERSITY	67	62	5	3
292 MEDICAL COLLEGE OF WISCONSIN	67	60	7	19
293 EASTERN VIRGINIA MEDICAL SCHOOL	62	57	5	1
294 ALBANY MEDICAL COLLEGE	59	56	3	49
295 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	57	52	5	1
296 RAND GRADUATE INSTITUTE POLICY STUDIES	54	54	0	0
297 OREGON HEALTH SCIENCES UNIVERSITY	53	48	5	18
298 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	52	45	7	7
299 SUNY - UPSTATE MEDICAL CENTER	48	30	18	14
300 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	44	44	0	48
TOTAL, 1ST 300 INSTS.	347,106	237,413	109,693	19,575

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TABLE E-3. DOCTORATE-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING		TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
301	PHILADELPHIA COLL OF PHARMACY AND SCI	42	39	3	0
302	PHILA COLLEGE OF OSTEOPATHIC MEDICINE	41	41	0	0
303	MEDICAL COLLEGE OF OHIO AT TOLEDO	40	30	10	1
304	UNIVERSITY OF MASSACHUSETTS AT WORCESTER	34	32	2	45
305	MEHARRY MEDICAL COLLEGE	34	34	0	3
306	ORAL ROBERTS UNIVERSITY	29	16	13	1
307	ST BONAVENTURE UNIVERSITY	22	17	5	0
308	NE OHIO UNIV MED SCHOOL	21	21	0	0
309	INSTITUTE OF TEXTILE TECHNOLOGY	20	20	0	0
310	CATHOLIC UNIVERSITY OF PUERTO RICO	15	10	5	0
	TOTAL, 1ST 310 INSTS.	347,404	237,673	109,731	19,625
311	SUNY STATE COLLEGE OF OPTOMETRY	6	3	3	1
312	BAYLOR COLLEGE OF DENTISTRY	3	0	3	0
313	PROVIDENCE COLLEGE	1	0	1	0
314	CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0	58
315	HEED UNIVERSITY	0	0	0	0
316	CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
317	WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
318	DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
319	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	45
320	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	3
	TOTAL, 1ST 320 INSTS.	347,414	237,676	109,738	19,732
321	MOREHOUSE COLLEGE	0	0	0	1
322	UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
323	COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0
	TOTAL, 1ST 323 INSTS.	347,414	237,676	109,738	19,733

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	122,738	79,965	42,773	4,464
1 UNIVERSITY OF SOUTHERN CALIFORNIA	2,110	1,109	1,001	52
2 UNIVERSITY OF PITTSBURGH	1,926	967	959	25
3 UNIVERSITY OF MINNESOTA	1,902	1,513	389	89
4 NEW YORK UNIVERSITY	1,695	581	1,114	60
5 UNIVERSITY OF WISCONSIN - MADISON	1,653	1,373	280	89
6 UNIVERSITY OF CALIF AT BERKELEY	1,638	1,638	0	79
7 UNIVERSITY OF CALIF AT LOS ANGELES	1,584	1,546	38	122
8 RUTGERS THE STATE UNIVERSITY	1,526	581	945	23
9 OHIO STATE UNIVERSITY	1,516	1,169	347	33
10 BOSTON UNIVERSITY	1,502	944	558	16
TOTAL, 1ST 10 INSTS.	17,052	11,421	5,631	588
11 UNIVERSITY OF WASHINGTON	1,427	1,045	382	111
12 TEXAS WOMAN'S UNIVERSITY	1,424	518	906	0
13 UNIV OF TEXAS AT AUSTIN	1,356	1,086	270	28
14 COLUMBIA UNIV TEACHERS COLLEGE	1,302	525	777	0
15 UNIVERSITY OF COLORADO	1,294	964	330	50
16 UNIVERSITY OF ILLINOIS - URBANA	1,246	1,114	132	50
17 WEST VIRGINIA UNIVERSITY	1,242	340	902	6
18 UNIV OF NORTH CAROLINA AT CHAPEL HILL	1,240	1,097	143	60
19 UNIVERSITY OF MICHIGAN	1,152	1,039	113	61
20 UNIVERSITY OF CONNECTICUT	1,126	934	192	26
TOTAL, 1ST 20 INSTS.	29,861	20,083	9,778	980
21 INDIANA UNIVERSITY, ALL CAMPUSES	1,097	625	472	47
22 UNIVERSITY OF TENNESSEE AT KNOXVILLE	1,088	755	333	16
23 LONG ISLAND UNIVERSITY	1,069	146	923	0
24 COLUMBIA UNIV MAIN DIVISION	1,048	727	321	77
25 MICHIGAN STATE UNIVERSITY	1,018	769	249	30
26 NEW SCHOOL FOR SOCIAL RESEARCH	1,016	149	867	0
27 SAN DIEGO STATE UNIVERSITY	991	622	369	2
28 PENNSYLVANIA STATE UNIVERSITY	983	718	265	24
29 UNIVERSITY OF MARYLAND - COLLEGE PARK	983	576	407	14
30 NORTHEASTERN UNIVERSITY	973	305	668	6
TOTAL, 1ST 30 INSTS.	40,127	25,475	14,652	1,196
31 HARVARD UNIVERSITY	953	919	34	321
32 UNIVERSITY OF ARIZONA	952	655	297	29
33 UNIVERSITY OF KANSAS	936	695	241	24
34 UNIVERSITY OF HAWAII AT MANOA	923	793	130	1
35 ARIZONA STATE UNIVERSITY	895	487	408	13
36 CORNELL UNIVERSITY	891	886	5	75
37 PURDUE UNIVERSITY	889	767	122	37
38 TEXAS A & M UNIVERSITY	887	646	241	24
39 CATHOLIC UNIVERSITY OF AMERICA	884	389	495	2
40 UNIVERSITY OF FLORIDA	882	630	252	31
TOTAL, 1ST 40 INSTS.	49,219	32,342	16,877	1,753
41 SUNY - BUFFALO	878	483	395	24
42 UNIVERSITY OF WISCONSIN - MILWAUKEE	870	411	459	2
43 SUNY - STONY BROOK	868	598	270	35
44 UNIVERSITY OF CALIF AT DAVIS	859	835	24	27
45 UNIVERSITY OF CINCINNATI	833	498	335	15
46 UNIVERSITY OF OKLAHOMA	829	500	329	11
47 VIRGINIA COMMONWEALTH UNIVERSITY	825	538	287	26
48 WAYNE STATE UNIVERSITY	816	426	390	10
49 CUNY GRADUATE SCHOOL AND UNIV CENTER	815	748	67	10
50 UNIVERSITY OF MASSACHUSETTS AT AMHERST	804	577	227	19
TOTAL, 1ST 50 INSTS.	57,616	37,956	19,660	1,932
51 UNIVERSITY OF PENNSYLVANIA	784	620	164	88
52 STANFORD UNIVERSITY	772	686	86	142
53 UNIVERSITY OF IOWA	766	542	224	42
54 FLORIDA STATE UNIVERSITY	754	487	267	6
55 CUNY HUNTER COLLEGE	747	429	318	1
56 UNIV OF TEXAS AT ARLINGTON	741	347	394	3
57 SYRACUSE UNIVERSITY	737	486	251	13
58 UNIVERSITY OF SOUTH CAROLINA	723	425	298	10
59 IOWA STATE UNIVERSITY OF SCI & TECH	717	554	163	6
60 CASE WESTERN RESERVE UNIVERSITY	705	414	291	44
TOTAL, 1ST 60 INSTS.	65,062	42,946	22,116	2,287

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
61 GEORGE WASHINGTON UNIVERSITY	703	210	493	1
62 WESTERN MICHIGAN UNIVERSITY	694	362	332	5
63 UNIVERSITY OF CALIF AT SAN FRANCISCO	686	674	12	154
64 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	682	625	57	88
65 UNIVERSITY OF GEORGIA	676	595	81	15
66 UNIVERSITY OF KENTUCKY	669	419	250	24
67 AMERICAN UNIVERSITY	666	218	448	2
68 NORTH CAROLINA STATE UNIV AT RALEIGH	645	545	100	27
69 UNIVERSITY OF UTAH	635	413	222	26
70 YALE UNIVERSITY	634	616	18	143
TOTAL, 1ST 70 INSTS.	71,752	47,623	24,129	2,772
71 ADELPHI UNIVERSITY	632	175	457	40
72 FLORIDA INSTITUTE OF TECHNOLOGY	626	131	495	0
73 JOHNS HOPKINS UNIVERSITY	615	564	51	99
74 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	600	370	230	29
75 UNIVERSITY OF MISSOURI - COLUMBIA	599	392	207	15
76 PACE UNIVERSITY	588	198	390	0
77 VIRGINIA POLYTECHNIC INST AND STATE UNIV	557	444	113	10
78 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	555	356	199	0
79 UNIVERSITY OF VIRGINIA	551	453	98	32
80 LOYOLA UNIVERSITY OF CHICAGO	549	224	325	5
TOTAL, 1ST 80 INSTS.	77,624	50,930	26,694	3,002
81 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	547	393	154	4
82 UNIVERSITY OF MARYLAND - BALT PROF SCH	544	230	314	14
83 FAIRLEIGH DICKINSON UNIVERSITY	528	120	408	0
84 UNIVERSITY OF DENVER	528	397	131	7
85 COLORADO STATE UNIVERSITY	518	394	124	15
86 NORTHERN ILLINOIS UNIVERSITY	504	250	254	2
87 TEMPLE UNIVERSITY	504	368	136	30
88 LOUISIANA STATE UNIVERSITY SYSTEM	502	384	118	15
89 UNIV OF ILLINOIS MED CENTER - CHICAGO	497	231	266	20
90 NORTHWESTERN UNIVERSITY	493	433	60	40
TOTAL, 1ST 90 INSTS.	82,789	54,130	28,659	3,149
91 LOMA LINDA UNIVERSITY	492	202	290	2
92 UNIVERSITY OF CHICAGO	481	471	10	44
93 WASHINGTON UNIVERSITY	478	432	46	84
94 UNIVERSITY OF NEW MEXICO	477	313	164	10
95 NORTH TEXAS STATE UNIVERSITY	472	325	147	5
96 UNIVERSITY OF DELAWARE	447	242	205	2
97 GEORGETOWN UNIVERSITY	434	292	142	6
98 UNIVERSITY OF SOUTH FLORIDA	429	250	179	1
99 GEORGIA STATE UNIVERSITY	427	241	186	3
100 ST LOUIS UNIVERSITY	425	200	225	27
TOTAL, 1ST 100 INSTS.	87,351	57,098	30,253	3,333
101 UNIVERSITY OF LOUISVILLE	416	222	194	6
102 KANSAS STATE UNIV OF AGR & APPLIED SCI	406	315	91	3
103 SUNY - BINGHAMTON	399	206	193	1
104 SOUTHERN ILLINOIS UNIV AT CARBONDALE	398	253	145	0
105 DE PAUL UNIVERSITY	394	164	230	0
106 HOWARD UNIVERSITY	393	288	105	16
107 GEORGIA INSTITUTE OF TECHNOLOGY	386	278	108	4
108 UNIVERSITY OF RHODE ISLAND	380	240	140	1
109 WASHINGTON STATE UNIVERSITY	379	319	60	8
110 UNIVERSITY OF AKRON	376	167	209	2
TOTAL, 1ST 110 INSTS.	91,278	59,550	31,728	3,374
111 PORTLAND STATE UNIVERSITY	372	215	157	0
112 KENT STATE UNIVERSITY	366	218	148	0
113 SUNY - ALBANY	361	214	147	4
114 OREGON STATE UNIVERSITY	355	319	36	9
115 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	353	172	181	0
116 UNIVERSITY OF MIAMI	353	251	102	8
117 UNIVERSITY OF CALIF AT IRVINE	346	303	43	34
118 DUKE UNIVERSITY	335	308	27	57
119 UNIV OF NORTH CAROLINA AT GREENSBORO	331	155	176	0
120 NORTHERN ARIZONA UNIVERSITY	330	111	219	0
TOTAL, 1ST 120 INSTS.	94,780	61,816	32,964	3,486

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
121 UNIVERSITY OF CALIF AT SAN DIEGO	330	315	15	86
122 ST JOHN'S UNIVERSITY	329	98	231	0
123 GEORGE MASON UNIVERSITY	328	104	224	0
124 MEMPHIS STATE UNIVERSITY	328	186	142	0
125 UNIVERSITY OF NEBRASKA - LINCOLN	324	266	58	13
126 UNIVERSITY OF HOUSTON	321	179	142	12
127 UNIV OF TEXAS AT DALLAS	319	164	155	3
128 TULANE UNIVERSITY OF LOUISIANA	314	244	70	2
129 VILLANOVA UNIVERSITY	310	46	264	0
130 ILLINOIS INSTITUTE OF TECHNOLOGY	310	82	228	6
TOTAL, 1ST 130 INSTS.	97,993	63,500	34,493	3,608
131 OLD DOMINION UNIVERSITY	309	117	192	0
132 UNIVERSITY OF CALIF AT SANTA BARBARA	308	297	11	10
133 THE UNIVERSITY OF ALABAMA	307	217	90	0
134 YESHIVA UNIVERSITY	307	245	62	78
135 UNIVERSITY OF CALIF AT RIVERSIDE	303	289	14	14
136 UNIVERSITY OF NEBRASKA - OMAHA	295	128	167	0
137 US INTERNATIONAL UNIVERSITY	293	166	127	0
138 OKLAHOMA STATE UNIVERSITY	285	250	35	5
139 UTAH STATE UNIVERSITY	283	236	47	3
140 WICHITA STATE UNIVERSITY	283	142	141	0
TOTAL, 1ST 140 INSTS.	100,966	65,587	35,379	3,718
141 OHIO UNIVERSITY	283	243	40	0
142 BALL STATE UNIVERSITY	281	125	156	0
143 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	281	206	75	2
144 UNIV OF TEXAS AT EL PASO	278	66	212	2
145 SETON HALL UNIVERSITY	274	88	186	0
146 UNIVERSITY OF MISSOURI - KANSAS CITY	270	71	199	0
147 TUFTS UNIVERSITY	269	208	61	17
148 CARIBBEAN CTR FOR ADV STD	267	181	86	0
149 RENSSELAER POLYTECHNIC INSTITUTE	263	193	70	5
150 BRIGHAM YOUNG UNIVERSITY	261	161	100	0
TOTAL, 1ST 150 INSTS.	103,693	67,129	36,564	3,744
151 TEXAS TECH UNIVERSITY	256	213	43	9
152 UNIVERSITY OF ROCHESTER	255	211	44	31
153 UNIVERSITY OF MISSISSIPPI	253	194	59	1
154 UNIVERSITY OF SOUTHERN MISSISSIPPI	250	161	89	1
155 UNIVERSITY OF ARKANSAS	249	200	49	3
156 CUNY CITY COLLEGE	249	117	132	2
157 CLEMSON UNIVERSITY	245	181	64	4
158 BROWN UNIVERSITY	243	216	27	8
159 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	243	175	68	12
160 UNIVERSITY OF CENTRAL FLORIDA	243	126	117	0
TOTAL, 1ST 160 INSTS.	106,179	68,923	37,256	3,815
161 PRINCETON UNIVERSITY	241	241	0	30
162 ATLANTA UNIVERSITY	240	183	57	0
163 EMORY UNIVERSITY	239	166	73	15
164 FORDHAM UNIVERSITY	237	147	90	0
165 UNIVERSITY OF LOWELL	233	81	152	0
166 RUSH UNIVERSITY	233	107	126	9
167 CLEVELAND STATE UNIVERSITY	232	112	120	0
168 EAST CAROLINA UNIVERSITY	231	145	86	1
169 NEW YORK INSTITUTE OF TECHNOLOGY	229	50	179	0
170 UNIVERSITY OF NEW ORLEANS	224	117	107	1
TOTAL, 1ST 170 INSTS.	108,518	70,272	38,246	3,871
171 STEVENS INSTITUTE OF TECHNOLOGY	223	75	148	1
172 VANDERBILT UNIVERSITY	220	204	16	28
173 ILLINOIS STATE UNIVERSITY	218	155	63	1
174 AUBURN UNIVERSITY	217	170	47	2
175 UNIVERSITY OF OREGON	215	195	20	14
176 BOSTON COLLEGE	214	180	34	2
177 HOFSTRA UNIVERSITY	213	123	90	0
178 MARQUETTE UNIVERSITY	211	128	83	1
179 MIAMI UNIVERSITY	205	167	38	3
180 THE FIELDING INSTITUTE	204	204	0	0
TOTAL, 1ST 180 INSTS.	110,658	71,873	38,785	3,923

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
181 WRIGHT STATE UNIVERSITY	204	140	64	4
182 DREXEL UNIVERSITY	202	80	122	2
183 CENTRAL MICHIGAN UNIVERSITY	199	107	92	0
184 MISSISSIPPI STATE UNIVERSITY	197	168	29	1
185 CARNEGIE-MELLON UNIVERSITY	196	159	37	11
186 SOUTHERN METHODIST UNIVERSITY	195	97	98	1
187 UNIVERSITY OF WYOMING	192	158	34	3
188 UNIVERSITY OF SOUTHWESTERN LOUISIANA	188	120	68	0
189 UNIVERSITY OF MONTANA	187	164	23	1
190 CALIF SCH OF PROF PSYCH - LOS ANGELES	182	156	26	0
TOTAL, 1ST 190 INSTS.	112,600	73,222	39,378	3,946
191 LEHIGH UNIVERSITY	179	106	73	5
192 NEW MEXICO STATE UNIVERSITY	179	137	42	3
193 SMITH COLLEGE	178	175	3	0
194 CALIF SCH OF PROF PSYCH - SAN DIEGO	174	132	42	0
195 UNION OF EXPERIMENTNG COLLEGES & UNIVS	171	171	0	0
196 UNIVERSITY OF NOTRE DAME	168	155	13	5
197 GOLDEN GATE UNIVERSITY	167	26	141	0
198 EAST TEXAS STATE UNIVERSITY	167	67	100	0
199 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	165	92	73	21
200 RICE UNIVERSITY	165	161	4	20
TOTAL, 1ST 200 INSTS.	114,313	74,444	39,869	4,000
201 BOWLING GREEN STATE UNIVERSITY	165	130	35	0
202 UNIVERSITY OF NEW HAMPSHIRE	162	131	31	0
203 UNIVERSITY OF TOLEDO	159	92	67	0
204 UNIVERSITY OF SANTA CLARA	152	0	152	0
205 UNIVERSITY OF DETROIT	152	55	97	0
206 NORTH DAKOTA STATE UNIVERSITY	144	110	34	1
207 UNIVERSITY OF MISSOURI - ROLLA	139	83	56	1
208 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	138	50	88	0
209 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	138	53	85	0
210 NEW JERSEY INSTITUTE OF TECHNOLOGY	138	14	124	0
TOTAL, 1ST 210 INSTS.	115,800	75,162	40,638	4,002
211 UNIVERSITY OF MAINE AT ORONO	138	120	18	1
212 MARSHALL UNIVERSITY	138	69	69	1
213 UNIVERSITY OF IDAHO	137	102	35	2
214 BRANDEIS UNIVERSITY	135	130	5	21
215 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	134	48	86	3
216 UNIVERSITY OF NEBRASKA MEDICAL CENTER	133	64	69	2
217 POLYTECHNIC INSTITUTE OF NEW YORK	130	20	110	0
218 BRYN MAWR COLLEGE	130	56	74	0
219 MONTANA STATE UNIVERSITY	129	119	10	2
220 FLORIDA ATLANTIC UNIVERSITY	129	59	70	0
TOTAL, 1ST 220 INSTS.	117,133	75,949	41,184	4,034
221 HAHNEMANN UNIVERSITY	127	122	5	3
222 UNIVERSITY OF NEVADA AT RENO	126	105	21	5
223 UNIVERSITY OF CALIF AT SANTA CRUZ	125	125	0	2
224 SOUTH DAKOTA STATE UNIVERSITY	125	47	78	0
225 UNIVERSITY OF DAYTON	122	42	80	1
226 CALIFORNIA INSTITUTE OF TECHNOLOGY	119	119	0	21
227 COLORADO SCHOOL OF MINES	117	84	33	0
228 UNIVERSITY OF NORTH DAKOTA	117	93	24	1
229 UNIVERSITY OF SOUTH ALABAMA	116	62	54	5
230 UNIVERSITY OF MISSOURI - ST LOUIS	114	54	60	2
TOTAL, 1ST 230 INSTS.	118,341	76,802	41,539	4,074
231 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	113	108	5	38
232 UNIV OF MED AND DENT OF NEW JERSEY	111	76	35	18
233 NOVA UNIVERSITY	110	108	2	0
234 MEDICAL COLLEGE OF GEORGIA	110	82	28	5
235 COLLEGE OF WILLIAM AND MARY	110	56	54	1
236 CALIF SCH OF PROF PSYCH - BERKELEY	109	109	0	0
237 DUQUESNE UNIVERSITY	107	31	76	0
238 THE WRIGHT INSTITUTE	106	101	5	0
239 LAMAR UNIVERSITY	106	64	42	0
240 SAM HOUSTON STATE UNIVERSITY	105	65	40	0
TOTAL, 1ST 240 INSTS.	119,428	77,602	41,826	4,136

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
241 OAKLAND UNIVERSITY	105	45	60	3
242 UNIVERSITY OF PUERTO RICO	103	84	19	0
243 SUNY - COLL OF ENV SCIENCE AND FORESTRY	103	73	30	0
244 BIOLA UNIVERSITY	101	82	19	0
245 CALIF SCH OF PROF PSYCH - FRESNO	101	101	0	0
246 WORCESTER POLYTECHNIC INSTITUTE	100	28	72	0
247 NEW YORK MEDICAL COLLEGE	100	30	70	7
248 BAYLOR UNIVERSITY	99	76	23	2
249 UNIVERSITY OF ALASKA AT FAIRBANKS	95	71	24	0
250 UNIV OF TEXAS MED BRANCH AT GALVESTON	94	66	28	17
TOTAL, 1ST 250 INSTS.	120,429	78,258	42,171	4,165
251 EAST TENNESSEE STATE UNIVERSITY	88	48	40	0
252 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	87	46	41	0
253 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	83	46	37	0
254 INDIANA STATE UNIVERSITY	82	57	25	2
255 DARTMOUTH COLLEGE	81	78	3	9
256 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	78	48	30	8
257 WAKE FOREST UNIVERSITY	77	52	25	5
258 IDAHO STATE UNIVERSITY	75	51	24	0
259 CLARK UNIVERSITY	75	72	3	1
260 STEPHEN F. AUSTIN STATE UNIVERSITY	74	60	14	2
TOTAL, 1ST 260 INSTS.	121,229	78,816	42,413	4,192
261 UNIVERSITY OF SOUTH DAKOTA	73	56	17	1
262 THE MEDICAL COLLEGE OF PENNSYLVANIA	66	12	54	6
263 NORTHEAST LOUISIANA UNIVERSITY	56	36	20	0
264 TEXAS CHRISTIAN UNIVERSITY	56	39	17	0
265 ALFRED UNIVERSITY	55	30	25	0
266 TEXAS A & I UNIVERSITY	54	41	13	0
267 UNIVERSITY OF TULSA	54	36	18	0
268 FULLER THEOLOGICAL SEMINARY	49	48	1	0
269 LOUISIANA TECH UNIVERSITY	49	31	18	0
270 MICHIGAN TECHNOLOGICAL UNIVERSITY	48	47	1	0
TOTAL, 1ST 270 INSTS.	121,789	79,192	42,597	4,199
271 BAYLOR COLLEGE OF MEDICINE	45	44	1	79
272 CLARKSON COLLEGE OF TECHNOLOGY	42	33	9	4
273 TENNESSEE TECHNOLOGICAL UNIVERSITY	40	19	21	0
274 THOMAS JEFFERSON UNIVERSITY	39	30	9	7
275 MEDICAL UNIVERSITY OF SOUTH CAROLINA	38	33	5	8
276 EASTERN VIRGINIA MEDICAL SCHOOL	38	36	2	0
277 US NAVAL POSTGRADUATE SCHOOL	36	36	0	2
278 ROCKEFELLER UNIVERSITY	35	31	4	65
279 UNIVERSITY OF THE PACIFIC	35	32	3	0
280 UNION COLLEGE(NY)	35	9	26	0
TOTAL, 1ST 280 INSTS.	122,172	79,495	42,677	4,364
281 UNIVERSITY OF NORTHERN IOWA	34	22	12	0
282 NEW MEXICO INSTITUTE OF MINING AND TECH	33	33	0	0
283 WESLEYAN UNIVERSITY	33	33	0	0
284 WOODS HOLE OCEANOGRAPHIC INSTITUTION	32	32	0	1
285 UNIVERSITY OF HEALTH SCIENCES	31	31	0	6
286 MEDICAL COLLEGE OF WISCONSIN	28	26	2	8
287 SOUTH DAKOTA SCHOOL OF MINES AND TECH	27	17	10	0
288 SUNY - DOWNSTATE MEDICAL CENTER	26	7	19	2
289 UNIVERSITY OF NORTHERN COLORADO	25	22	3	0
290 SUNY - UPSTATE MEDICAL CENTER	25	13	12	3
TOTAL, 1ST 290 INSTS.	122,466	79,731	42,735	4,384
291 OREGON HEALTH SCIENCES UNIVERSITY	24	20	4	4
292 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	22	20	2	1
293 INSTITUTE OF PAPER CHEMISTRY	20	20	0	0
294 ALBANY MEDICAL COLLEGE	19	16	3	11
295 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	18	18	0	14
296 MEHARRY MEDICAL COLLEGE	17	17	0	1
297 ORAL ROBERTS UNIVERSITY	17	5	12	1
298 CATHOLIC UNIVERSITY OF PUERTO RICO	15	10	5	0
299 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	15	14	1	0
300 PHILADELPHIA COLL OF PHARMACY AND SCI	14	14	0	0
TOTAL, 1ST 300 INSTS.	122,647	79,885	42,762	4,416

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TABLE E-4. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
301 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	13	13	0	0
302 OREGON GRADUATE CENTER	13	10	3	2
303 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	12	12	0	15
304 MEDICAL COLLEGE OF OHIO AT TOLEDO	11	9	2	0
305 CREIGHTON UNIVERSITY	9	9	0	1
306 NE OHIO UNIV MED SCHOOL	9	9	0	0
307 ST BONAVENTURE UNIVERSITY	6	4	2	0
308 RAND GRADUATE INSTITUTE POLICY STUDIES	5	5	0	0
309 AIR FORCE INSTITUTE OF TECHNOLOGY	4	4	0	0
310 INSTITUTE OF TEXTILE TECHNOLOGY	4	4	0	0
TOTAL, 1ST 310 INSTS.	122,733	79,964	42,769	4,434
311 SUNY STATE COLLEGE OF OPTOMETRY	3	1	2	0
312 BAYLOR COLLEGE OF DENTISTRY	1	0	1	0
313 PROVIDENCE COLLEGE	1	0	1	0
314 HEED UNIVERSITY	0	0	0	0
315 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	15
316 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	0
317 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0
318 CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
319 MOREHOUSE COLLEGE	0	0	0	0
320 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
TOTAL, 1ST 320 INSTS.	122,738	79,965	42,773	4,449
321 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
322 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0	15
323 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
TOTAL, 1ST 323 INSTS.	122,738	79,965	42,773	4,464

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
	TOTAL, ALL INSTITUTIONS	10,249	5,968	4,281
1	UNIVERSITY OF SOUTHERN CALIFORNIA	619	172	447
2	HOWARD UNIVERSITY	395	303	92
3	ATLANTA UNIVERSITY	349	274	75
4	UNIVERSITY OF PITTSBURGH	179	102	77
5	UNIV OF NORTH CAROLINA AT CHAPEL HILL	165	130	35
6	RUTGERS THE STATE UNIVERSITY	155	40	115
7	OHIO STATE UNIVERSITY	150	123	27
8	NEW YORK UNIVERSITY	141	42	99
9	NORTHEASTERN UNIVERSITY	139	38	101
10	UNIVERSITY OF CALIF AT BERKELEY	133	133	0
	TOTAL, 1ST 10 INSTS.	2,425	1,357	1,068
11	LONG ISLAND UNIVERSITY	132	18	114
12	UNIVERSITY OF MARYLAND - COLLEGE PARK	131	82	49
13	CUNY HUNTER COLLEGE	119	69	50
14	UNIVERSITY OF COLORADO	119	54	65
15	TEMPLE UNIVERSITY	116	91	25
16	UNIVERSITY OF MICHIGAN	115	110	5
17	WAYNE STATE UNIVERSITY	115	55	60
18	UNIVERSITY OF TENNESSEE AT KNOXVILLE	110	75	35
19	DE PAUL UNIVERSITY	103	53	50
20	UNIVERSITY OF CINCINNATI	103	59	44
	TOTAL, 1ST 20 INSTS.	3,588	2,023	1,565
21	CUNY CITY COLLEGE	101	40	61
22	FLORIDA INSTITUTE OF TECHNOLOGY	100	14	86
23	NORTH CAROLINA STATE UNIV AT RALEIGH	98	80	18
24	COLUMBIA UNIV MAIN DIVISION	94	52	42
25	UNIVERSITY OF GEORGIA	93	79	14
26	GEORGIA INSTITUTE OF TECHNOLOGY	92	53	39
27	UNIVERSITY OF SOUTH CAROLINA	92	47	45
28	VIRGINIA COMMONWEALTH UNIVERSITY	90	48	42
29	NEW SCHOOL FOR SOCIAL RESEARCH	86	5	81
30	MICHIGAN STATE UNIVERSITY	84	66	18
	TOTAL, 1ST 30 INSTS.	4,518	2,507	2,011
31	GEORGE WASHINGTON UNIVERSITY	83	17	66
32	TEXAS WOMAN'S UNIVERSITY	82	24	58
33	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	82	75	7
34	AMERICAN UNIVERSITY	79	23	56
35	WESTERN MICHIGAN UNIVERSITY	78	26	52
36	HARVARD UNIVERSITY	78	73	5
37	FLORIDA STATE UNIVERSITY	78	57	21
38	UNIVERSITY OF FLORIDA	74	55	19
39	UNIVERSITY OF CALIF AT LOS ANGELES	72	69	3
40	SUNY - STONY BROOK	71	56	15
	TOTAL, 1ST 40 INSTS.	5,295	2,982	2,313
41	CATHOLIC UNIVERSITY OF AMERICA	69	22	47
42	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	69	42	27
43	PURDUE UNIVERSITY	69	50	19
44	CORNELL UNIVERSITY	68	68	0
45	UNIVERSITY OF ILLINOIS - URBANA	67	55	12
46	UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	67	24	43
47	UNIV OF TEXAS AT AUSTIN	65	50	15
48	ILLINOIS INSTITUTE OF TECHNOLOGY	65	14	51
49	MEMPHIS STATE UNIVERSITY	64	17	47
50	CASE WESTERN RESERVE UNIVERSITY	63	41	22
	TOTAL, 1ST 50 INSTS.	5,961	3,365	2,596
51	UNIVERSITY OF WISCONSIN - MILWAUKEE	62	44	18
52	STANFORD UNIVERSITY	61	60	1
53	LOUISIANA STATE UNIVERSITY SYSTEM	60	42	18
54	CUNY GRADUATE SCHOOL AND UNIV CENTER	60	55	5
55	BOSTON UNIVERSITY	58	39	19
56	UNIVERSITY OF OKLAHOMA	58	33	25
57	PENNSYLVANIA STATE UNIVERSITY	58	40	18
58	ST LOUIS UNIVERSITY	57	26	31
59	UNIVERSITY OF NEW ORLEANS	57	23	34
60	CARNEGIE-MELLON UNIVERSITY	55	52	3
	TOTAL, 1ST 60 INSTS.	6,547	3,779	2,768

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
61 ST JOHN'S UNIVERSITY	55	23	32
62 IOWA STATE UNIVERSITY OF SCI & TECH	54	54	0
63 NEW YORK INSTITUTE OF TECHNOLOGY	54	11	43
64 WEST VIRGINIA UNIVERSITY	51	10	41
65 UNIVERSITY OF MISSOURI - COLUMBIA	50	35	15
66 WASHINGTON UNIVERSITY	50	49	1
67 UNIVERSITY OF CONNECTICUT	48	46	2
68 JOHNS HOPKINS UNIVERSITY	46	36	10
69 FAIRLEIGH DICKINSON UNIVERSITY	46	8	38
70 MISSISSIPPI STATE UNIVERSITY	46	40	6
TOTAL, 1ST 70 INSTS.	7,047	4,091	2,956
71 OLD DOMINION UNIVERSITY	45	14	31
72 LOMA LINDA UNIVERSITY	45	23	22
73 GEORGIA STATE UNIVERSITY	45	21	24
74 UNIVERSITY OF SOUTHERN MISSISSIPPI	45	31	14
75 UNIV OF TEXAS AT ARLINGTON	42	19	23
76 UNIVERSITY OF PENNSYLVANIA	42	24	18
77 UNIVERSITY OF MINNESOTA	42	38	4
78 CLEVELAND STATE UNIVERSITY	42	6	36
79 UNIVERSITY OF DETROIT	42	10	32
80 SUNY - BUFFALO	41	13	28
TOTAL, 1ST 80 INSTS.	7,478	4,290	3,188
81 COLUMBIA UNIV TEACHERS COLLEGE	40	1	39
82 PACE UNIVERSITY	40	8	32
83 UNIVERSITY OF LOUISVILLE	39	21	18
84 UNIVERSITY OF WASHINGTON	39	24	15
85 UNIVERSITY OF KENTUCKY	37	31	6
86 UNIVERSITY OF NEBRASKA - OMAHA	37	12	25
87 SYRACUSE UNIVERSITY	37	31	6
88 YALE UNIVERSITY	37	37	0
89 INDIANA UNIVERSITY, ALL CAMPUSES	36	25	11
90 UNIVERSITY OF MASSACHUSETTS AT AMHERST	36	17	19
TOTAL, 1ST 90 INSTS.	7,856	4,497	3,359
91 UNIVERSITY OF MARYLAND - BALT PROF SCH	35	18	17
92 UNIVERSITY OF CHICAGO	35	34	1
93 THE UNIVERSITY OF ALABAMA	34	28	6
94 LOYOLA UNIVERSITY OF CHICAGO	33	11	22
95 UNIVERSITY OF WISCONSIN - MADISON	32	28	4
96 EAST CAROLINA UNIVERSITY	32	11	21
97 ARIZONA STATE UNIVERSITY	32	22	10
98 UNIVERSITY OF SANTA CLARA	32	0	32
99 UNIVERSITY OF IOWA	32	20	12
100 NORTH TEXAS STATE UNIVERSITY	31	25	6
TOTAL, 1ST 100 INSTS.	8,184	4,694	3,490
101 NORTHWESTERN UNIVERSITY	31	27	4
102 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	31	15	16
103 UNIVERSITY OF MISSISSIPPI	31	25	6
104 RENSSELAER POLYTECHNIC INSTITUTE	31	23	8
105 UNIVERSITY OF HOUSTON	31	14	17
106 KENT STATE UNIVERSITY	31	26	5
107 UNIVERSITY OF AKRON	30	12	18
108 UNIVERSITY OF SOUTH FLORIDA	30	23	7
109 UNIVERSITY OF KANSAS	30	24	6
110 UNIVERSITY OF DENVER	29	27	2
TOTAL, 1ST 110 INSTS.	8,489	4,910	3,579
111 EMORY UNIVERSITY	29	19	10
112 WRIGHT STATE UNIVERSITY	29	17	12
113 PRINCETON UNIVERSITY	29	29	0
114 UNIVERSITY OF ARKANSAS	28	18	10
115 UNIV OF NORTH CAROLINA AT GREENSBORO	28	17	11
116 EAST TEXAS STATE UNIVERSITY	28	10	18
117 MEHARRY MEDICAL COLLEGE	27	27	0
118 ADELPHI UNIVERSITY	27	10	17
119 GOLDEN GATE UNIVERSITY	26	2	24
120 SAM HOUSTON STATE UNIVERSITY	26	18	8
TOTAL, 1ST 120 INSTS.	8,766	5,077	3,689

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
121	TULANE UNIVERSITY OF LOUISIANA	25	22	3
122	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	24	11	13
123	UNIV OF ILLINOIS MED CENTER - CHICAGO	24	6	18
124	WICHITA STATE UNIVERSITY	23	6	17
125	VILLANOVA UNIVERSITY	22	0	22
126	PORTLAND STATE UNIVERSITY	22	11	11
127	NORTHERN ILLINOIS UNIVERSITY	21	15	6
128	FLORIDA ATLANTIC UNIVERSITY	21	6	15
129	UNIVERSITY OF CALIF AT DAVIS	21	20	1
130	UNIVERSITY OF DAYTON	21	8	13
	TOTAL, 1ST 130 INSTS.	8,990	5,182	3,808
131	UNIVERSITY OF MIAMI	21	8	13
132	UNIVERSITY OF SOUTHWESTERN LOUISIANA	21	15	6
133	BOWLING GREEN STATE UNIVERSITY	20	19	1
134	VIRGINIA POLYTECHNIC INST AND STATE UNIV	20	12	8
135	UNIVERSITY OF VIRGINIA	19	17	2
136	UNIVERSITY OF CENTRAL FLORIDA	19	8	11
137	TEXAS A & M UNIVERSITY	19	14	5
138	UNIVERSITY OF MARYLAND - BALTIMORE CNTY	19	5	14
139	CLEMSON UNIVERSITY	19	13	6
140	UNIVERSITY OF RHODE ISLAND	19	13	6
	TOTAL, 1ST 140 INSTS.	9,186	5,306	3,880
141	AUBURN UNIVERSITY	19	13	6
142	SUNY - BINGHAMTON	19	8	11
143	NEW JERSEY INSTITUTE OF TECHNOLOGY	18	4	14
144	US INTERNATIONAL UNIVERSITY	18	9	9
145	UNIVERSITY OF SOUTH ALABAMA	18	8	10
146	POLYTECHNIC INSTITUTE OF NEW YORK	18	1	17
147	UNIVERSITY OF NEW MEXICO	17	3	14
148	FORDHAM UNIVERSITY	17	4	13
149	EAST TENNESSEE STATE UNIVERSITY	17	15	2
150	MEDICAL COLLEGE OF GEORGIA	17	10	7
	TOTAL, 1ST 150 INSTS.	9,364	5,381	3,983
151	HOFSTRA UNIVERSITY	16	12	4
152	DREXEL UNIVERSITY	16	4	12
153	SUNY - ALBANY	16	10	6
154	UNIVERSITY OF CALIF AT IRVINE	16	16	0
155	UNIVERSITY OF CALIF AT SAN FRANCISCO	15	15	0
156	GEORGETOWN UNIVERSITY	15	6	9
157	CLAREMONT UNIV CENTER & GRADUATE SCHOOL	15	6	9
158	UNIVERSITY OF MISSOURI - KANSAS CITY	15	6	9
159	DUKE UNIVERSITY	15	14	1
160	THE FIELDING INSTITUTE	15	15	0
	TOTAL, 1ST 160 INSTS.	9,518	5,485	4,033
161	UNION OF EXPERIMENTNG COLLEGES & UNIVS	15	15	0
162	UNIVERSITY OF ROCHESTER	14	12	2
163	UNIVERSITY OF NEBRASKA - LINCOLN	14	9	5
164	UNIV OF TEXAS AT DALLAS	14	8	6
165	UNIVERSITY OF LOWELL	14	4	10
166	OKLAHOMA STATE UNIVERSITY	14	9	5
167	UNIVERSITY OF CALIF AT RIVERSIDE	14	12	2
168	UNIVERSITY OF TOLEDO	14	6	8
169	GEORGE MASON UNIVERSITY	14	2	12
170	INDIANA STATE UNIVERSITY	14	6	8
	TOTAL, 1ST 170 INSTS.	9,659	5,568	4,091
171	MIAMI UNIVERSITY	14	10	4
172	UNIVERSITY OF DELAWARE	13	2	11
173	SAN DIEGO STATE UNIVERSITY	13	8	5
174	RICE UNIVERSITY	13	13	0
175	ILLINOIS STATE UNIVERSITY	13	11	2
176	UNIVERSITY OF UTAH	12	10	2
177	UNIVERSITY OF ARIZONA	12	10	2
178	WASHINGTON STATE UNIVERSITY	12	11	1
179	CENTRAL MICHIGAN UNIVERSITY	12	5	7
180	NORTHERN ARIZONA UNIVERSITY	12	2	10
	TOTAL, 1ST 180 INSTS.	9,785	5,650	4,135

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
181 STEVENS INSTITUTE OF TECHNOLOGY	12	1	11
182 VANDERBILT UNIVERSITY	12	12	0
183 LAMAR UNIVERSITY	12	7	5
184 BOSTON COLLEGE	11	5	6
185 BIOLA UNIVERSITY	11	9	2
186 UNIVERSITY OF HAWAII AT MANOA	10	9	1
187 UNIVERSITY OF CALIF AT SANTA CRUZ	10	10	0
188 KANSAS STATE UNIV OF AGR & APPLIED SCI	10	8	2
189 CALIF SCH OF PROF PSYCH - LOS ANGELES	10	6	4
190 UNIV OF MED AND DENT OF NEW JERSEY	10	5	5
TOTAL, 1ST 190 INSTS.	9,893	5,722	4,171
191 SOUTHERN METHODIST UNIVERSITY	9	3	6
192 UNIVERSITY OF MISSOURI - ST LOUIS	9	4	5
193 UNIVERSITY OF NOTRE DAME	9	7	2
194 OREGON STATE UNIVERSITY	9	8	1
195 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	9	4	5
196 UNIVERSITY OF CALIF AT SANTA BARBARA	8	8	0
197 DUQUESNE UNIVERSITY	8	2	6
198 OHIO UNIVERSITY	8	7	1
199 HAHNEMANN UNIVERSITY	8	8	0
200 COLORADO STATE UNIVERSITY	8	8	0
TOTAL, 1ST 200 INSTS.	9,978	5,781	4,197
201 UNIV OF TEXAS AT EL PASO	8	2	6
202 FULLER THEOLOGICAL SEMINARY	7	7	0
203 RUSH UNIVERSITY	7	4	3
204 TEXAS TECH UNIVERSITY	7	4	3
205 SETON HALL UNIVERSITY	7	0	7
206 COLLEGE OF WILLIAM AND MARY	7	3	4
207 THE WRIGHT INSTITUTE	7	7	0
208 CALIF SCH OF PROF PSYCH - FRESNO	7	7	0
209 TEXAS A & I UNIVERSITY	7	7	0
210 UNIVERSITY OF CALIF AT SAN DIEGO	6	6	0
TOTAL, 1ST 210 INSTS.	10,048	5,828	4,220
211 BRANDEIS UNIVERSITY	6	5	1
212 BROWN UNIVERSITY	6	6	0
213 OAKLAND UNIVERSITY	6	5	1
214 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	6	6	0
215 LEHIGH UNIVERSITY	6	2	4
216 CALIF SCH OF PROF PSYCH - SAN DIEGO	6	5	1
217 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	6	3	3
218 TENNESSEE TECHNOLOGICAL UNIVERSITY	5	4	1
219 SMITH COLLEGE	5	4	1
220 UNIVERSITY OF NORTHERN IOWA	5	4	1
TOTAL, 1ST 220 INSTS.	10,105	5,872	4,233
221 NEW MEXICO STATE UNIVERSITY	5	4	1
222 MARQUETTE UNIVERSITY	5	2	3
223 NEW YORK MEDICAL COLLEGE	5	1	4
224 NORTHEAST LOUISIANA UNIVERSITY	5	4	1
225 COLORADO SCHOOL OF MINES	4	3	1
226 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	4	4	0
227 THE MEDICAL COLLEGE OF PENNSYLVANIA	4	1	3
228 UNIVERSITY OF MISSOURI - ROLLA	4	1	3
229 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	4	3	1
230 CALIF SCH OF PROF PSYCH - BERKELEY	4	4	0
TOTAL, 1ST 230 INSTS.	10,149	5,899	4,250
231 TUFTS UNIVERSITY	4	4	0
232 UNIV OF TEXAS MED BRANCH AT GALVESTON	4	2	2
233 UNIVERSITY OF OREGON	4	4	0
234 MARSHALL UNIVERSITY	4	0	4
235 UNIVERSITY OF WYOMING	4	3	1
236 UNION COLLEGE(NY)	3	1	2
237 UTAH STATE UNIVERSITY	3	1	2
238 UNIVERSITY OF MONTANA	3	3	0
239 THOMAS JEFFERSON UNIVERSITY	3	2	1
240 STEPHEN F. AUSTIN STATE UNIVERSITY	3	3	0
TOTAL, 1ST 240 INSTS.	10,184	5,922	4,262

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
241 CLARK UNIVERSITY	3	3	0
242 UNIVERSITY OF PUERTO RICO	3	2	1
243 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	3	3	0
244 WAKE FOREST UNIVERSITY	2	1	1
245 EASTERN VIRGINIA MEDICAL SCHOOL	2	1	1
246 UNIVERSITY OF NEBRASKA MEDICAL CENTER	2	1	1
247 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	2	1	1
248 NORTH DAKOTA STATE UNIVERSITY	2	2	0
249 SOUTH DAKOTA STATE UNIVERSITY	2	1	1
250 UNIVERSITY OF SOUTH DAKOTA	2	2	0
TOTAL, 1ST 250 INSTS.	10,207	5,939	4,268
251 DARTMOUTH COLLEGE	2	2	0
252 INSTITUTE OF PAPER CHEMISTRY	2	2	0
253 TEXAS CHRISTIAN UNIVERSITY	2	2	0
254 BALL STATE UNIVERSITY	2	0	2
255 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	2	2	0
256 UNIVERSITY OF NEVADA AT RENO	2	2	0
257 MONTANA STATE UNIVERSITY	2	2	0
258 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	2	2	0
259 UNIVERSITY OF HEALTH SCIENCES	2	2	0
260 LOUISIANA TECH UNIVERSITY	2	0	2
TOTAL, 1ST 260 INSTS.	10,227	5,955	4,272
261 NOVA UNIVERSITY	2	2	0
262 BAYLOR UNIVERSITY	1	0	1
263 WORCESTER POLYTECHNIC INSTITUTE	1	0	1
264 ORAL ROBERTS UNIVERSITY	1	0	1
265 MEDICAL COLLEGE OF WISCONSIN	1	0	1
266 UNIVERSITY OF THE PACIFIC	1	0	1
267 SUNY - COLL OF ENV SCIENCE AND FORESTRY	1	1	0
268 BRIGHAM YOUNG UNIVERSITY	1	0	1
269 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	1	1	0
270 MEDICAL UNIVERSITY OF SOUTH CAROLINA	1	1	0
TOTAL, 1ST 270 INSTS.	10,238	5,960	4,278
271 ST BONAVENTURE UNIVERSITY	1	0	1
272 IDAHO STATE UNIVERSITY	1	0	1
273 RAND GRADUATE INSTITUTE POLICY STUDIES	1	1	0
274 UNIVERSITY OF TULSA	1	1	0
275 UNIVERSITY OF ALASKA AT FAIRBANKS	1	1	0
276 CARIBBEAN CTR FOR ADV STD	1	1	0
277 WESLEYAN UNIVERSITY	1	1	0
278 YESHIVA UNIVERSITY	1	1	0
279 UNIVERSITY OF NORTH DAKOTA	1	1	0
280 CLARKSON COLLEGE OF TECHNOLOGY	1	1	0
TOTAL, 1ST 280 INSTS.	10,248	5,968	4,280
281 CREIGHTON UNIVERSITY	1	0	1
282 MEDICAL COLLEGE OF OHIO AT TOLEDO	0	0	0
283 UNIVERSITY OF NORTHERN COLORADO	0	0	0
284 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0
285 INSTITUTE OF TEXTILE TECHNOLOGY	0	0	0
286 BAYLOR COLLEGE OF MEDICINE	0	0	0
287 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	0	0	0
288 UNIVERSITY OF HEALTH SCIENCES	0	0	0
289 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0
290 UNIVERSITY OF IDAHO	0	0	0
TOTAL, 1ST 290 INSTS.	10,249	5,968	4,281
291 SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	0	0
292 MICHIGAN TECHNOLOGICAL UNIVERSITY	0	0	0
293 WOODS HOLE OCEANOGRAPHIC INSTITUTION	0	0	0
294 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0
295 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0
296 BAYLOR COLLEGE OF DENTISTRY	0	0	0
297 CALIFORNIA INSTITUTE OF TECHNOLOGY	0	0	0
298 ALFRED UNIVERSITY	0	0	0
299 SOUTH DAKOTA SCHOOL OF MINES AND TECH	0	0	0
300 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	0	0	0
TOTAL, 1ST 300 INSTS.	10,249	5,968	4,281

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TABLE E-5. DOCTORATE-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
301 OREGON HEALTH SCIENCES UNIVERSITY	0	0	0
302 BRYN MAWR COLLEGE	0	0	0
303 CHICAGO COLL OF OSTEO MEDICINE	0	0	0
304 SUNY STATE COLLEGE OF OPTOMETRY	0	0	0
305 ROCKEFELLER UNIVERSITY	0	0	0
306 UNIVERSITY OF MAINE AT ORONO	0	0	0
307 US NAVAL POSTGRADUATE SCHOOL	0	0	0
308 UNIVERSITY OF NEW HAMPSHIRE	0	0	0
309 SUNY - DOWNSTATE MEDICAL CENTER	0	0	0
310 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0
TOTAL, 1ST 310 INSTS.	10,249	5,968	4,281
311 AIR FORCE INSTITUTE OF TECHNOLOGY	0	0	0
312 CATHOLIC UNIVERSITY OF PUERTO RICO	0	0	0
313 SUNY - UPSTATE MEDICAL CENTER	0	0	0
314 HEED UNIVERSITY	0	0	0
315 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0
316 PROVIDENCE COLLEGE	0	0	0
317 NEW MEXICO INSTITUTE OF MINING AND TECH	0	0	0
318 ALBANY MEDICAL COLLEGE	0	0	0
319 NE OHIO UNIV MED SCHOOL	0	0	0
320 OREGON GRADUATE CENTER	0	0	0
TOTAL, 1ST 320 INSTS.	10,249	5,968	4,281
321 MOREHOUSE COLLEGE	0	0	0
322 PHILADELPHIA COLL OF PHARMACY AND SCI	0	0	0
323 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	0	0
TOTAL, 1ST 323 INSTS.	10,249	5,968	4,281

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	55,443	7,328
1 UNIVERSITY OF CALIF AT BERKELEY	1,245	165
2 UNIVERSITY OF WISCONSIN - MADISON	1,162	138
3 OHIO STATE UNIVERSITY	1,092	108
4 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	1,081	137
5 STANFORD UNIVERSITY	1,047	146
6 UNIVERSITY OF SOUTHERN CALIFORNIA	1,041	130
7 UNIV OF TEXAS AT AUSTIN	1,015	94
8 UNIVERSITY OF MICHIGAN	944	86
9 UNIVERSITY OF MINNESOTA	935	136
10 UNIVERSITY OF ILLINOIS - URBANA	925	124
TOTAL, 1ST 10 INSTS.	10,487	1,264
11 UNIVERSITY OF CALIF AT LOS ANGELES	906	156
12 CORNELL UNIVERSITY	851	129
13 UNIVERSITY OF PITTSBURGH	809	37
14 IOWA STATE UNIVERSITY OF SCI & TECH	764	21
15 PURDUE UNIVERSITY	763	112
16 PENNSYLVANIA STATE UNIVERSITY	745	39
17 MICHIGAN STATE UNIVERSITY	707	74
18 TEXAS A & M UNIVERSITY	661	70
19 UNIVERSITY OF FLORIDA	657	83
20 UNIVERSITY OF CALIF AT DAVIS	645	54
TOTAL, 1ST 20 INSTS.	17,995	2,039
21 COLUMBIA UNIV MAIN DIVISION	641	94
22 HARVARD UNIVERSITY	590	419
23 SUNY - BUFFALO	589	71
24 SUNY - STONY BROOK	580	80
25 UNIVERSITY OF PENNSYLVANIA	532	101
26 NORTH CAROLINA STATE UNIV AT RALEIGH	519	23
27 OKLAHOMA STATE UNIVERSITY	518	18
28 UNIVERSITY OF ARIZONA	514	61
29 UNIVERSITY OF WASHINGTON	503	97
30 GEORGIA INSTITUTE OF TECHNOLOGY	493	24
TOTAL, 1ST 30 INSTS.	23,474	3,027
31 RENSSELAER POLYTECHNIC INSTITUTE	491	37
32 OREGON STATE UNIVERSITY	478	16
33 UNIVERSITY OF KANSAS	468	51
34 UNIVERSITY OF IOWA	467	41
35 UNIVERSITY OF HAWAII AT MANOA	463	9
36 RUTGERS THE STATE UNIVERSITY	459	42
37 VIRGINIA POLYTECHNIC INST AND STATE UNIV	455	22
38 NORTHWESTERN UNIVERSITY	443	64
39 UNIVERSITY OF CINCINNATI	441	17
40 LOUISIANA STATE UNIVERSITY SYSTEM	436	29
TOTAL, 1ST 40 INSTS.	28,075	3,355
41 INDIANA UNIVERSITY, ALL CAMPUSES	426	57
42 UNIVERSITY OF MARYLAND - COLLEGE PARK	413	81
43 HOWARD UNIVERSITY	412	23
44 UNIVERSITY OF MISSOURI - COLUMBIA	406	18
45 UNIV OF TEXAS AT ARLINGTON	397	7
46 UNIVERSITY OF COLORADO	395	70
47 OHIO UNIVERSITY	391	3
48 KANSAS STATE UNIV OF AGR & APPLIED SCI	391	35
49 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	390	21
50 UNIVERSITY OF HOUSTON	388	33
TOTAL, 1ST 50 INSTS.	32,084	3,703
51 CASE WESTERN RESERVE UNIVERSITY	378	47
52 PRINCETON UNIVERSITY	364	73
53 BOSTON UNIVERSITY	351	11
54 CUNY GRADUATE SCHOOL AND UNIV CENTER	350	19
55 UNIVERSITY OF CALIF AT SANTA BARBARA	349	54
56 UNIVERSITY OF CHICAGO	325	99
57 UNIVERSITY OF GEORGIA	321	37
58 SYRACUSE UNIVERSITY	321	23
59 STEVENS INSTITUTE OF TECHNOLOGY	321	12
60 GEORGE WASHINGTON UNIVERSITY	320	8
TOTAL, 1ST 60 INSTS.	35,484	4,086

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
61 YALE UNIVERSITY	311	193
62 UNIVERSITY OF OKLAHOMA	310	36
63 WEST VIRGINIA UNIVERSITY	305	25
64 CALIFORNIA INSTITUTE OF TECHNOLOGY	299	74
65 TEXAS TECH UNIVERSITY	298	19
66 UTAH STATE UNIVERSITY	296	12
67 COLORADO STATE UNIVERSITY	291	40
68 UNIVERSITY OF CONNECTICUT	289	40
69 UNIVERSITY OF NEBRASKA - LINCOLN	281	20
70 UNIVERSITY OF KENTUCKY	278	50
TOTAL, 1ST 70 INSTS.	38,442	4,595
71 UNIVERSITY OF MASSACHUSETTS AT AMHERST	277	47
72 NORTHEASTERN UNIVERSITY	276	16
73 WASHINGTON STATE UNIVERSITY	274	20
74 UNIVERSITY OF CALIF AT SAN DIEGO	267	144
75 CARNEGIE-MELLON UNIVERSITY	261	57
76 JOHNS HOPKINS UNIVERSITY	256	160
77 ARIZONA STATE UNIVERSITY	253	35
78 NEW YORK UNIVERSITY	249	77
79 ILLINOIS INSTITUTE OF TECHNOLOGY	249	17
80 UNIVERSITY OF UTAH	245	58
TOTAL, 1ST 80 INSTS.	41,049	5,226
81 WASHINGTON UNIVERSITY	239	80
82 UNIVERSITY OF MISSOURI - ROLLA	232	7
83 MISSISSIPPI STATE UNIVERSITY	231	3
84 UNIVERSITY OF CALIF AT RIVERSIDE	230	41
85 FLORIDA INSTITUTE OF TECHNOLOGY	230	0
86 UNIVERSITY OF ROCHESTER	218	48
87 UNIVERSITY OF MIAMI	214	5
88 BROWN UNIVERSITY	213	25
89 UNIVERSITY OF SOUTH CAROLINA	212	23
90 UNIVERSITY OF RHODE ISLAND	208	11
TOTAL, 1ST 90 INSTS.	43,276	5,469
91 LEHIGH UNIVERSITY	204	17
92 AUBURN UNIVERSITY	200	5
93 NORTH TEXAS STATE UNIVERSITY	196	10
94 UNIVERSITY OF TENNESSEE AT KNOXVILLE	190	27
95 WAYNE STATE UNIVERSITY	189	28
96 UNIVERSITY OF SOUTHWESTERN LOUISIANA	186	0
97 TULANE UNIVERSITY OF LOUISIANA	186	10
98 UNIVERSITY OF ARKANSAS	180	6
99 RICE UNIVERSITY	180	36
100 US NAVAL POSTGRADUATE SCHOOL	178	3
TOTAL, 1ST 100 INSTS.	45,165	5,611
101 UNIVERSITY OF NOTRE DAME	177	16
102 LOMA LINDA UNIVERSITY	177	10
103 UNIVERSITY OF NEW MEXICO	175	8
104 UNIV OF TEXAS AT DALLAS	174	7
105 UNIVERSITY OF CALIF AT IRVINE	174	30
106 AMERICAN UNIVERSITY	170	10
107 UNIV OF NORTH CAROLINA AT CHAPEL HILL	167	29
108 VANDERBILT UNIVERSITY	161	59
109 CUNY CITY COLLEGE	156	23
110 UNIVERSITY OF VIRGINIA	153	59
TOTAL, 1ST 110 INSTS.	46,849	5,862
111 FLORIDA STATE UNIVERSITY	150	29
112 UNIVERSITY OF WISCONSIN - MILWAUKEE	150	17
113 DREXEL UNIVERSITY	150	12
114 UNIVERSITY OF DELAWARE	145	7
115 COLORADO SCHOOL OF MINES	141	0
116 NEW MEXICO STATE UNIVERSITY	139	6
117 NORTH DAKOTA STATE UNIVERSITY	138	7
118 SUNY - ALBANY	137	18
119 CLEMSON UNIVERSITY	133	19
120 UNIVERSITY OF OREGON	132	17
TOTAL, 1ST 120 INSTS.	48,264	5,985

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING		FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
121	CATHOLIC UNIVERSITY OF AMERICA	130	11
122	WESTERN MICHIGAN UNIVERSITY	130	4
123	THE UNIVERSITY OF ALABAMA	129	9
124	SAN DIEGO STATE UNIVERSITY	126	3
125	TEMPLE UNIVERSITY	125	35
126	ATLANTA UNIVERSITY	122	61
127	UNIVERSITY OF TOLEDO	121	1
128	MARQUETTE UNIVERSITY	117	7
129	UNIVERSITY OF AKRON	116	11
130	NEW YORK INSTITUTE OF TECHNOLOGY	115	0
	TOTAL, 1ST 130 INSTS.	49,495	6,127
131	UNIVERSITY OF WYOMING	105	6
132	CLARKSON COLLEGE OF TECHNOLOGY	103	19
133	BRIGHAM YOUNG UNIVERSITY	103	8
134	OLD DOMINION UNIVERSITY	101	5
135	POLYTECHNIC INSTITUTE OF NEW YORK	101	0
136	UNIVERSITY OF DENVER	100	5
137	UNIVERSITY OF MISSISSIPPI	99	15
138	UNIVERSITY OF CALIF AT SAN FRANCISCO	95	163
139	SOUTH DAKOTA SCHOOL OF MINES AND TECH	87	0
140	LAMAR UNIVERSITY	87	0
	TOTAL, 1ST 140 INSTS.	50,476	6,348
141	UNIVERSITY OF LOWELL	87	0
142	BRANDEIS UNIVERSITY	86	24
143	KENT STATE UNIVERSITY	85	0
144	SUNY - BINGHAMTON	85	9
145	COLUMBIA UNIV TEACHERS COLLEGE	84	0
146	SOUTHERN METHODIST UNIVERSITY	82	7
147	WORCESTER POLYTECHNIC INSTITUTE	81	2
148	MONTANA STATE UNIVERSITY	79	5
149	MICHIGAN TECHNOLOGICAL UNIVERSITY	79	0
150	VILLANOVA UNIVERSITY	79	0
	TOTAL, 1ST 150 INSTS.	51,303	6,395
151	NORTHERN ILLINOIS UNIVERSITY	77	2
152	UNIVERSITY OF IDAHO	77	9
153	UNIVERSITY OF TULSA	76	0
154	TUFTS UNIVERSITY	73	15
155	UNIVERSITY OF DETROIT	73	1
156	NEW JERSEY INSTITUTE OF TECHNOLOGY	72	0
157	UNIVERSITY OF LOUISVILLE	72	9
158	DUKE UNIVERSITY	72	46
159	UNIV OF ILLINOIS MED CENTER - CHICAGO	70	36
160	TEXAS WOMAN'S UNIVERSITY	70	1
	TOTAL, 1ST 160 INSTS.	52,035	6,514
161	LONG ISLAND UNIVERSITY	67	1
162	UNIV OF TEXAS AT EL PASO	66	3
163	EAST TEXAS STATE UNIVERSITY	66	0
164	MIAMI UNIVERSITY	64	2
165	GEORGETOWN UNIVERSITY	63	14
166	NEW SCHOOL FOR SOCIAL RESEARCH	61	0
167	INDIANA STATE UNIVERSITY	58	1
168	SOUTH DAKOTA STATE UNIVERSITY	57	1
169	UNION OF EXPERIMENTNG COLLEGES & UNIVS	57	0
170	CLEVELAND STATE UNIVERSITY	57	0
	TOTAL, 1ST 170 INSTS.	52,651	6,536
171	CLARK UNIVERSITY	56	0
172	UNIVERSITY OF NEVADA AT RENO	56	4
173	BOWLING GREEN STATE UNIVERSITY	56	3
174	WICHITA STATE UNIVERSITY	55	0
175	THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	55	38
176	NEW MEXICO INSTITUTE OF MINING AND TECH	54	1
177	UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	53	0
178	THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	52	4
179	SUNY - COLL OF ENV SCIENCE AND FORESTRY	50	3
180	ST LOUIS UNIVERSITY	50	24
	TOTAL, 1ST 180 INSTS.	53,188	6,613

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
181 UNIVERSITY OF MAINE AT ORONO	48	4
182 TENNESSEE TECHNOLOGICAL UNIVERSITY	48	0
183 UNIVERSITY OF ALASKA AT FAIRBANKS	47	1
184 MEMPHIS STATE UNIVERSITY	47	2
185 UNIVERSITY OF NEW HAMPSHIRE	47	0
186 LOUISIANA TECH UNIVERSITY	46	0
187 CUNY HUNTER COLLEGE	45	0
188 UNIVERSITY OF CALIF AT SANTA CRUZ	45	14
189 US INTERNATIONAL UNIVERSITY	43	0
190 PORTLAND STATE UNIVERSITY	42	0
TOTAL, 1ST 190 INSTS.	53,646	6,634
191 SAM HOUSTON STATE UNIVERSITY	41	0
192 FAIRLEIGH DICKINSON UNIVERSITY	40	0
193 CENTRAL MICHIGAN UNIVERSITY	40	0
194 EMORY UNIVERSITY	40	14
195 ILLINOIS STATE UNIVERSITY	39	3
196 BOSTON COLLEGE	38	6
197 LOYOLA UNIVERSITY OF CHICAGO	37	12
198 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	36	0
199 DARTMOUTH COLLEGE	34	4
200 UNIVERSITY OF MISSOURI - KANSAS CITY	33	0
TOTAL, 1ST 200 INSTS.	54,024	6,673
201 UNIVERSITY OF SANTA CLARA	33	0
202 UNIVERSITY OF NORTH DAKOTA	33	5
203 UNIVERSITY OF CENTRAL FLORIDA	33	0
204 UNIVERSITY OF DAYTON	32	0
205 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	32	10
206 COLLEGE OF WILLIAM AND MARY	32	2
207 UNIVERSITY OF MARYLAND - BALT PROF SCH	32	26
208 UNIVERSITY OF SOUTH FLORIDA	32	9
209 VIRGINIA COMMONWEALTH UNIVERSITY	31	22
210 UNIVERSITY OF MONTANA	30	1
TOTAL, 1ST 210 INSTS.	54,344	6,748
211 BAYLOR COLLEGE OF MEDICINE	30	86
212 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	29	1
213 DE PAUL UNIVERSITY	29	0
214 EAST TENNESSEE STATE UNIVERSITY	29	1
215 TEXAS A & I UNIVERSITY	28	0
216 GEORGIA STATE UNIVERSITY	28	4
217 WRIGHT STATE UNIVERSITY	28	2
218 ST JOHN'S UNIVERSITY	27	0
219 PACE UNIVERSITY	25	0
220 FLORIDA ATLANTIC UNIVERSITY	25	1
TOTAL, 1ST 220 INSTS.	54,622	6,843
221 YESHIVA UNIVERSITY	24	68
222 UNIV OF NORTH CAROLINA AT GREENSBORO	24	0
223 OAKLAND UNIVERSITY	23	4
224 UNIVERSITY OF NEW ORLEANS	21	4
225 WOODS HOLE OCEANOGRAPHIC INSTITUTION	21	1
226 ROCKEFELLER UNIVERSITY	21	72
227 BAYLOR UNIVERSITY	21	3
228 UNIVERSITY OF NORTHERN COLORADO	21	0
229 BALL STATE UNIVERSITY	19	0
230 UNIVERSITY OF NEBRASKA MEDICAL CENTER	19	7
TOTAL, 1ST 230 INSTS.	54,836	7,002
231 THE FIELDING INSTITUTE	18	0
232 ADELPHI UNIVERSITY	18	13
233 DUQUESNE UNIVERSITY	18	1
234 UNIV OF TEXAS MED BRANCH AT GALVESTON	16	25
235 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	16	0
236 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	16	35
237 CARIBBEAN CTR FOR ADV STD	16	0
238 UNIVERSITY OF SOUTHERN MISSISSIPPI	15	1
239 ALFRED UNIVERSITY	15	0
240 OREGON GRADUATE CENTER	15	7
TOTAL, 1ST 240 INSTS.	54,999	7,084

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
241 NORTHERN ARIZONA UNIVERSITY	15	0
242 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	15	1
243 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	14	2
244 UNION COLLEGE(NY)	14	0
245 UNIVERSITY OF THE PACIFIC	13	0
246 STEPHEN F. AUSTIN STATE UNIVERSITY	12	1
247 UNIVERSITY OF MISSOURI - ST LOUIS	12	3
248 NORTHEAST LOUISIANA UNIVERSITY	12	0
249 CALIF SCH OF PROF PSYCH - SAN DIEGO	12	0
250 RAND GRADUATE INSTITUTE POLICY STUDIES	12	0
TOTAL, 1ST 250 INSTS.	55,130	7,091
251 SETON HALL UNIVERSITY	11	1
252 FORDHAM UNIVERSITY	11	4
253 IDAHO STATE UNIVERSITY	10	0
254 PHILADELPHIA COLL OF PHARMACY AND SCI	10	0
255 CALIF SCH OF PROF PSYCH - FRESNO	10	0
256 MARSHALL UNIVERSITY	9	1
257 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	9	0
258 UNIVERSITY OF NEBRASKA - OMAHA	9	0
259 MEDICAL COLLEGE OF WISCONSIN	9	4
260 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	9	17
TOTAL, 1ST 260 INSTS.	55,227	7,118
261 THE WRIGHT INSTITUTE	9	0
262 CALIF SCH OF PROF PSYCH - BERKELEY	9	0
263 GOLDEN GATE UNIVERSITY	9	0
264 BRYN MAWR COLLEGE	8	0
265 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	8	24
266 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	8	0
267 UNIVERSITY OF HEALTH SCIENCES	7	4
268 BIOLA UNIVERSITY	7	0
269 TEXAS CHRISTIAN UNIVERSITY	7	0
270 MEDICAL UNIVERSITY OF SOUTH CAROLINA	7	14
TOTAL, 1ST 270 INSTS.	55,306	7,160
271 SUNY - DOWNSTATE MEDICAL CENTER	7	7
272 HAHNEMANN UNIVERSITY	7	4
273 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	7	16
274 MEDICAL COLLEGE OF OHIO AT TOLEDO	6	0
275 EAST CAROLINA UNIVERSITY	6	7
276 UNIVERSITY OF SOUTH ALABAMA	6	8
277 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	6	0
278 MEHARRY MEDICAL COLLEGE	6	2
279 WESLEYAN UNIVERSITY	6	0
280 RUSH UNIVERSITY	5	2
TOTAL, 1ST 280 INSTS.	55,368	7,206
281 UNIVERSITY OF SOUTH DAKOTA	5	0
282 HOFSTRA UNIVERSITY	5	0
283 OREGON HEALTH SCIENCES UNIVERSITY	5	2
284 MEDICAL COLLEGE OF GEORGIA	5	20
285 CALIF SCH OF PROF PSYCH - LOS ANGELES	4	0
286 WAKE FOREST UNIVERSITY	4	4
287 AIR FORCE INSTITUTE OF TECHNOLOGY	4	0
288 UNIV OF MED AND DENT OF NEW JERSEY	4	16
289 NEW YORK MEDICAL COLLEGE	4	5
290 FULLER THEOLOGICAL SEMINARY	3	0
TOTAL, 1ST 290 INSTS.	55,411	7,253
291 NE OHIO UNIV MED SCHOOL	3	0
292 GEORGE MASON UNIVERSITY	3	0
293 NOVA UNIVERSITY	3	0
294 SUNY - UPSTATE MEDICAL CENTER	3	8
295 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	3	0
296 UNIVERSITY OF NORTHERN IOWA	3	0
297 INSTITUTE OF PAPER CHEMISTRY	3	1
298 EASTERN VIRGINIA MEDICAL SCHOOL	2	0
299 ALBANY MEDICAL COLLEGE	2	11
300 SUNY STATE COLLEGE OF OPTOMETRY	2	0
TOTAL, 1ST 300 INSTS.	55,438	7,273

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TABLE E-6. DOCTORATE-GRANTING INSTITUTIONS RANKED BY FOREIGN FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	FOREIGN FULL-TIME STUDENTS	FOREIGN POST-DOCTORATES
301 THOMAS JEFFERSON UNIVERSITY	2	3
302 ORAL ROBERTS UNIVERSITY	1	0
303 CREIGHTON UNIVERSITY	1	0
304 CATHOLIC UNIVERSITY OF PUERTO RICO	1	0
305 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	0	15
306 CHICAGO COLL OF OSTEO MEDICINE	0	0
307 SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	0
308 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0
309 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	12
310 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0
TOTAL, 1ST 310 INSTS.	55,443	7,303
311 BAYLOR COLLEGE OF DENTISTRY	0	0
312 DREW POST-GRADUATE MEDICAL SCHOOL	0	0
313 MOREHOUSE COLLEGE	0	0
314 MEED UNIVERSITY	0	0
315 INSTITUTE OF TEXTILE TECHNOLOGY	0	0
316 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	23
317 UNIVERSITY OF HEALTH SCIENCES	0	0
318 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	2
319 PROVIDENCE COLLEGE	0	0
320 THE MEDICAL COLLEGE OF PENNSYLVANIA	0	0
TOTAL, 1ST 320 INSTS.	55,443	7,328
321 ST BONAVENTURE UNIVERSITY	0	0
322 SMITH COLLEGE	0	0
323 UNIVERSITY OF PUERTO RICO	0	0
TOTAL, 1ST 323 INSTS.	55,443	7,328

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	52,268	18,283	33,985	39
1 SAN JOSE STATE UNIVERSITY	2,022	523	1,499	6
2 CALIF STATE UNIV AT LONG BEACH	1,744	183	1,561	0
3 CALIF STATE UNIVERSITY AT SACRAMENTO	1,302	513	789	0
4 CALIF STATE UNIV AT FULLERTON	1,287	196	1,091	0
5 CALIF STATE UNIVERSITY AT NORTHRIDGE	1,164	380	784	1
6 CALIF STATE UNIV AT LOS ANGELES	1,096	311	785	0
7 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	1,035	288	747	0
8 SAN FRANCISCO STATE UNIVERSITY	912	296	616	1
9 ANTIOCH UNIVERSITY	876	858	18	0
10 THE HARTFORD GRADUATE CENTER	867	64	803	0
TOTAL, 1ST 10 INSTS.	12,305	3,612	8,693	8
11 JOHN F KENNEDY UNIVERSITY	753	287	466	0
12 SANGAMON STATE UNIVERSITY	702	164	538	0
13 MARYMOOD COLLEGE	694	153	541	0
14 CUNY BERNARD BARUCH COLLEGE	671	135	536	0
15 ROCHESTER INSTITUTE OF TECHNOLOGY	658	85	573	0
16 CALIF STATE UNIVERSITY AT FRESNO	653	217	436	0
17 LOYOLA COLLEGE	649	137	512	0
18 UNIVERSITY OF NEW HAVEN	590	86	504	0
19 GOVERNORS STATE UNIVERSITY	581	52	529	0
20 UNIVERSITY OF BRIDGEPORT	575	88	487	0
TOTAL, 1ST 20 INSTS.	18,831	5,016	13,815	8
21 MONTCLAIR STATE COLLEGE	567	68	499	0
22 GEORGE WILLIAMS COLLEGE	558	189	369	0
23 CALIF STATE UNIV AT HAYWARD	547	147	400	0
24 WEST VIRGINIA COLLEGE OF GRAD STUDIES	528	43	485	0
25 RUSSELL SAGE COLLEGE	521	50	471	0
26 CALIF STATE POLYTECHNIC UNIV AT POMONA	483	147	336	0
27 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	476	75	401	0
28 EASTERN MICHIGAN UNIVERSITY	460	170	290	0
29 ROOSEVELT UNIVERSITY	444	115	329	0
30 UNIVERSITY OF SAN FRANCISCO	441	398	43	0
TOTAL, 1ST 30 INSTS.	23,856	6,418	17,438	8
31 SOUTHWEST TEXAS STATE UNIVERSITY	426	207	219	1
32 CALIF STATE UNIV AT DOMINGUEZ HILLS	418	210	208	0
33 HOOD COLLEGE	386	23	363	0
34 PEPPERDINE UNIVERSITY	382	233	149	0
35 LOYOLA MARYMOUNT UNIVERSITY	370	239	131	0
36 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	364	241	123	0
37 UNIVERSITY OF WISCONSIN - STOUT	362	239	123	0
38 CUNY QUEENS COLLEGE	357	131	226	7
39 TOWSON STATE UNIVERSITY	348	80	268	0
40 SEATTLE UNIVERSITY	343	138	205	0
TOTAL, 1ST 40 INSTS.	27,612	8,159	19,453	16
41 MANHATTAN COLLEGE	338	118	220	0
42 IONA COLLEGE	330	0	330	0
43 WESTERN ILLINOIS UNIVERSITY	320	219	101	0
44 NATIONAL UNIVERSITY	316	234	82	0
45 MANKATO STATE UNIVERSITY	309	170	139	0
46 ANNA MARIA COLLEGE	303	9	294	0
47 EASTERN WASHINGTON UNIVERSITY	299	195	104	1
48 WEST CHESTER UNIVERSITY	298	68	230	0
49 SOUTHERN CONNECTICUT STATE COLLEGE	296	107	189	0
50 TRINITY UNIVERSITY	289	133	156	2
TOTAL, 1ST 50 INSTS.	30,710	9,412	21,298	19
51 CUNY BROOKLYN COLLEGE	288	25	263	0
52 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	281	108	173	0
53 UNIVERSITY OF WEST FLORIDA	277	106	171	0
54 UNIVERSITY OF BALTIMORE	274	41	233	0
55 WEST TEXAS STATE UNIVERSITY	264	54	210	0
56 CALIF STATE UNIVERSITY AT CHICO	248	205	43	0
57 SHIPPENSBURG STATE COLLEGE	248	49	199	0
58 MIDDLE TENNESSEE STATE UNIVERSITY	244	112	132	0
59 WEST COAST UNIVERSITY	243	235	8	0
60 BISCAYNE COLLEGE	242	105	137	0
TOTAL, 1ST 60 INSTS.	33,319	10,452	22,867	19

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
61 ALABAMA A & M UNIVERSITY	237	173	64	2
62 ST MARY'S UNIVERSITY OF SAN ANTONIO	234	79	155	0
63 UNIVERSITY OF HARTFORD	230	86	144	0
64 UNIVERSITY OF WISCONSIN - OSHKOSH	228	80	148	0
65 NORTHWESTERN STATE UNIV OF LOUISIANA	223	83	140	0
66 EMPORIA STATE UNIVERSITY - KANSAS	221	107	114	0
67 NORTHEASTERN ILLINOIS UNIVERSITY	217	12	205	0
68 BARRY COLLEGE	216	100	116	0
69 WESTERN WASHINGTON UNIVERSITY	206	164	42	0
70 UNIV OF NORTH CAROLINA AT CHARLOTTE	206	67	139	0
TOTAL, 1ST 70 INSTS.	35,537	11,403	24,134	21
71 QUINNIPIAC COLLEGE	205	12	193	0
72 CALIF STATE COLLEGE OF STANISLAUS	205	101	104	0
73 JACKSON STATE UNIVERSITY	202	95	107	0
74 CENTRAL MISSOURI STATE UNIVERSITY	200	130	70	0
75 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	197	141	56	0
76 TENNESSEE STATE UNIVERSITY	196	53	143	0
77 PITTSBURG STATE UNIVERSITY	194	97	97	0
78 SUFFOLK UNIVERSITY	192	14	178	0
79 WESTERN KENTUCKY UNIVERSITY	190	100	90	0
80 UNIVERSITY OF NEVADA AT LAS VEGAS	187	93	94	0
TOTAL, 1ST 80 INSTS.	37,505	12,239	25,266	21
81 COLLEGE OF ST ROSE	183	1	182	0
82 RHODE ISLAND COLLEGE	182	81	101	0
83 CHAPMAN COLLEGE	181	25	156	0
84 EASTERN NEW MEXICO UNIVERSITY	180	111	69	1
85 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	179	56	123	0
86 SUNY COLLEGE AT OSWEGO	174	36	138	0
87 CORPUS CHRISTI STATE UNIVERSITY	174	36	138	0
88 PRAIRIE VIEW A & M UNIVERSITY	170	127	43	0
89 AMERICAN INTERNATIONAL COLLEGE	167	26	141	0
90 UNIVERSITY OF SCRANTON	167	65	102	0
TOTAL, 1ST 90 INSTS.	39,262	12,803	26,459	22
91 TEXAS SOUTHERN UNIVERSITY	167	111	56	0
92 FORT HAYS STATE UNIVERSITY	164	81	83	0
93 APPALACHIAN STATE UNIVERSITY	164	118	46	0
94 UNIV OF ALASKA AT ANCHORAGE	161	41	120	0
95 WAGNER COLLEGE	159	13	146	0
96 EDINBORO UNIVERSITY	157	59	98	0
97 XAVIER UNIVERSITY	155	110	45	0
98 UNIVERSITY OF TEXAS AT TYLER	154	13	141	0
99 ST MARY'S COLLEGE	154	26	128	0
100 PACIFIC LUTHERAN UNIVERSITY	154	75	79	0
TOTAL, 1ST 100 INSTS.	40,851	13,450	27,401	22
101 NORTH CAROLINA A & T STATE UNIVERSITY	152	100	52	0
102 ASSUMPTION COLLEGE	152	31	121	0
103 INDIANA UNIVERSITY OF PENNSYLVANIA	151	102	49	0
104 ARKANSAS STATE UNIVERSITY	150	109	41	0
105 WILLIAM PATERSON COLLEGE	149	25	124	0
106 MILLERSVILLE STATE COLLEGE	148	20	128	0
107 UNIVERSITY OF EVANSVILLE	147	20	127	0
108 EASTERN KENTUCKY UNIVERSITY	147	95	52	0
109 MIDWESTERN STATE UNIVERSITY	146	25	121	0
110 WESTERN NEW ENGLAND COL	145	0	145	0
TOTAL, 1ST 110 INSTS.	42,338	13,977	28,361	22
111 GEORGIA COLLEGE	145	7	138	0
112 TUSKEGEE INSTITUTE	144	138	6	2
113 UNIVERSITY OF TEXAS AT SAN ANTONIO	144	33	111	2
114 COLLEGE OF NEW ROCHELLE	142	27	115	0
115 UNIVERSITY OF WISCONSIN - STEVENS POINT	141	114	27	0
116 BRADLEY UNIVERSITY	139	53	86	0
117 CENTRAL CONNECTICUT STATE UNIVERSITY	134	22	112	0
118 VALDOSTA STATE COLLEGE	132	65	67	0
119 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	132	28	104	0
120 WORCESTER STATE COLLEGE	130	0	130	0
TOTAL, 1ST 120 INSTS.	43,721	14,464	29,257	26

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
121 WESTERN CAROLINA UNIVERSITY	127	69	58	0
122 SUNY COLLEGE AT NEW PALTZ	123	46	77	0
123 JAMES MADISON UNIVERSITY	123	75	48	0
124 UNIVERSITY OF PORTLAND	123	92	31	0
125 YOUNGSTOWN STATE UNIVERSITY	123	45	78	0
126 UNIVERSITY OF THE DISTRICT OF COLUMBIA	123	59	64	0
127 EASTERN ILLINOIS UNIVERSITY	123	103	20	0
128 MCNEESE STATE UNIVERSITY	122	36	86	0
129 MONMOUTH COLLEGE(NJ)	120	13	107	0
130 VALPARAISO UNIVERSITY	117	2	115	0
TOTAL, 1ST 130 INSTS.	44,945	15,004	29,941	26
131 SUNY COLLEGE AT BROCKPORT	114	15	99	0
132 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	113	46	67	2
133 SPALDING COLLEGE	110	12	98	0
134 AZUSA PACIFIC UNIVERSITY	108	99	9	0
135 UNIVERSITY OF CENTRAL ARKANSAS	106	41	65	0
136 KEAN COLLEGE OF NEW JERSEY	105	9	96	0
137 HUMBOLDT STATE UNIVERSITY	104	56	48	0
138 HAMPTON INSTITUTE	102	73	29	0
139 MURRAY STATE UNIVERSITY	101	62	39	0
140 DRAKE UNIVERSITY	100	34	66	0
TOTAL, 1ST 140 INSTS.	46,008	15,451	30,557	28
141 NORTHEAST MISSOURI STATE UNIVERSITY	97	67	30	0
142 ST JOSEPH COLLEGE	97	0	97	0
143 UNIVERSITY OF SAN DIEGO	96	41	55	0
144 TROY STATE UNIVERSITY AT MONTGOMERY	95	0	95	0
145 NORTH CAROLINA CENTRAL UNIVERSITY	94	46	48	0
146 ANDREWS UNIVERSITY	93	31	62	0
147 CALIF STATE COLLEGE AT SAN BERNARDINO	92	44	48	0
148 TRENTON STATE COLLEGE	92	5	87	0
149 GANNON COLLEGE	91	37	54	0
150 WIDENER UNIVERSITY	90	13	77	0
TOTAL, 1ST 150 INSTS.	46,945	15,735	31,210	28
151 CLARION STATE COLLEGE	88	19	69	0
152 COLLEGE OF CHARLESTON	87	28	59	0
153 SONOMA STATE UNIVERSITY	85	21	64	0
154 WESTERN OREGON STATE COLLEGE	85	38	47	0
155 NORTHWEST MISSOURI STATE UNIVERSITY	83	34	49	0
156 CENTRAL WASHINGTON UNIVERSITY	83	62	21	0
157 NORTHERN MICHIGAN UNIVERSITY	82	38	44	0
158 WASHINGTON COLLEGE	82	0	82	0
159 SOUTHWEST MISSOURI STATE UNIVERSITY	81	29	52	0
160 UNIVERSITY OF WISCONSIN - LA CROSSE	81	63	18	0
TOTAL, 1ST 160 INSTS.	47,782	16,067	31,715	28
161 AMERICAN TECHNOLOGICAL UNIVERSITY	80	43	37	0
162 WEST GEORGIA COLLEGE	79	53	26	0
163 FROSTBURG STATE COLLEGE	79	29	50	0
164 MILWAUKEE SCHOOL OF ENGINEERING	77	0	77	0
165 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	77	31	46	0
166 BUTLER UNIVERSITY	77	6	71	0
167 MONTEREY INST OF INTL STUDIES	76	64	12	0
168 MOREHEAD STATE UNIVERSITY	75	41	34	0
169 SUNY COLLEGE AT GENESEO	73	53	20	0
170 SUL ROSS STATE UNIVERSITY	73	38	35	0
TOTAL, 1ST 170 INSTS.	48,548	16,425	32,123	28
171 NEW MEXICO HIGHLANDS UNIVERSITY	72	70	2	0
172 UNIVERSITY OF WISCONSIN - EAU CLAIRE	72	44	28	0
173 SOUTHERN UNIVERSITY A & M COLLEGE	71	42	29	0
174 INDIANA CENTRAL UNIVERSITY	70	60	10	0
175 RADFORD UNIVERSITY	68	48	20	0
176 ANGELO STATE UNIVERSITY	68	19	49	0
177 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	67	9	58	0
178 TARLETON STATE UNIVERSITY	66	26	40	0
179 UNIVERSITY OF WISCONSIN - GREEN BAY	65	17	48	0
180 JACKSONVILLE STATE UNIVERSITY	65	20	45	0
TOTAL, 1ST 180 INSTS.	49,232	16,780	32,452	28

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
181 GEORGIA SOUTHERN COLLEGE	65	39	26	0
182 FRAMINGHAM STATE COLLEGE	64	13	51	0
183 VIRGINIA STATE UNIVERSITY	64	36	28	0
184 PRATT INSTITUTE	63	15	48	0
185 JOHN CARROLL UNIVERSITY	60	23	37	2
186 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	59	51	8	0
187 CALIFORNIA STATE COLLEGE	59	24	35	0
188 UNIVERSITY OF WISCONSIN - PLATTEVILLE	58	32	26	0
189 MOORHEAD STATE UNIVERSITY	57	39	18	0
190 RIVIER COLLEGE	57	2	55	0
TOTAL, 1ST 190 INSTS.	49,838	17,054	32,784	30
191 SUNY COLLEGE AT BUFFALO	56	26	30	3
192 WHITWORTH COLLEGE	56	56	0	0
193 AUSTIN PEAY STATE UNIVERSITY	56	23	33	0
194 FLORIDA A & M UNIVERSITY	55	47	8	0
195 MORGAN STATE UNIVERSITY	54	28	26	0
196 SUNY COLLEGE AT PLATTSBURGH	51	34	17	1
197 MARIST COLLEGE	50	22	28	0
198 SARAH LAWRENCE COLLEGE	50	47	3	0
199 KUTZTOWN STATE COLLEGE	49	3	46	0
200 CITADEL MILITARY COLL OF SOUTH CAROLINA	49	2	47	0
TOTAL, 1ST 200 INSTS.	50,364	17,342	33,022	34
201 DOMINICAN COLLEGE OF SAN RAFAEL	48	15	33	0
202 UNIV OF ALASKA SOUTHEAST	48	9	39	0
203 UNIV OF MASSACHUSETTS-BOSTON	48	40	8	0
204 MIDWEST COLLEGE OF ENGINEERING	46	1	45	0
205 ST JOSEPH'S UNIVERSITY	44	5	39	0
206 CHICAGO STATE UNIVERSITY	44	3	41	0
207 COOPER UNION	43	37	6	0
208 ITHACA COLLEGE	43	27	16	0
209 EMERSON COLLEGE	43	39	4	0
210 UNIVERSITY OF REDLANDS	42	25	17	0
TOTAL, 1ST 210 INSTS.	50,813	17,543	33,270	34
211 NORTHROP UNIVERSITY	42	24	18	0
212 UNIVERSITY OF WISCONSIN - WHITEWATER	42	25	17	0
213 TRINITY COLLEGE	41	0	41	0
214 UNIVERSITY OF LA VERNE	41	13	28	0
215 CUNY LEHMAN COLLEGE	40	30	10	1
216 SAINT FRANCIS COLLEGE	39	9	30	0
217 SOUTHERN OREGON STATE COLLEGE	38	26	12	0
218 UNIVERSITY OF RICHMOND	36	18	18	0
219 ADAMS STATE UNIVERSITY	36	15	21	0
220 UNIVERSITY OF GUAM	35	4	31	0
TOTAL, 1ST 220 INSTS.	51,203	17,707	33,496	35
221 ABILENE CHRISTIAN UNIVERSITY	35	30	5	0
222 EAST CENTRAL OKLAHOMA STATE UNIV	34	19	15	0
223 BUCKNELL UNIVERSITY	32	19	13	0
224 WINTHROP COLLEGE	31	17	14	0
225 NICHOLLS STATE UNIVERSITY	30	18	12	0
226 SUNY COLLEGE AT FREDONIA	29	18	11	0
227 PAN AMERICAN UNIVERSITY	28	7	21	0
228 PACIFIC STATES UNIVERSITY	28	22	6	0
229 FISK UNIVERSITY	28	25	3	0
230 SOUTHEAST MISSOURI STATE UNIVERSITY	28	15	13	0
TOTAL, 1ST 230 INSTS.	51,506	17,897	33,609	35
231 COPPIN STATE COLLEGE	27	5	22	0
232 WILLIAMS COLLEGE	26	26	0	0
233 CALIFORNIA LUTHERAN COLLEGE	26	5	21	0
234 CONNECTICUT COLLEGE	26	20	6	0
235 SUNY COLLEGE AT POTSDAM	25	2	23	0
236 ROLLINS COLLEGE	24	11	13	0
237 MISSISSIPPI UNIVERSITY FOR WOMEN	24	12	12	0
238 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	24	20	4	0
239 EAST STROUDSBURG STATE COLLEGE	24	6	18	0
240 LORAS COLLEGE	23	0	23	0
TOTAL, 1ST 240 INSTS.	51,755	18,004	33,751	35

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TABLE E-7. MASTER'S-GRANTING INSTITUTIONS RANKED BY TOTAL SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS	POST-DOCTORATES
241 AUGUSTA COLLEGE	23	9	14	0
242 GRAMBLING STATE UNIVERSITY	21	13	8	0
243 FLORIDA INTERNATIONAL UNIVERSITY	21	7	14	0
244 UNIVERSITY OF MONTEVALLO	20	14	6	0
245 UNIVERSITY OF PUGET SOUND	20	20	0	0
246 WESTERN CONNECTICUT STATE UNIVERSITY	18	4	14	0
247 HENDERSON STATE UNIVERSITY	18	6	12	0
248 BEMIDJI STATE UNIVERSITY	17	8	9	0
249 DREW UNIVERSITY	17	5	12	0
250 WASHBURN UNIV OF TOPEKA	16	8	8	0
TOTAL, 1ST 250 INSTS.	51,946	18,098	33,848	35
251 ARMSTRONG STATE COLLEGE	16	0	16	0
252 NIAGARA UNIVERSITY	16	12	4	0
253 ALABAMA STATE UNIVERSITY	16	13	3	0
254 MOUNT HOLYOKE COLLEGE	15	13	2	0
255 BLOOMSBURG STATE COLLEGE	15	7	8	0
256 SOUTHEASTERN LOUISIANA UNIVERSITY	15	11	4	0
257 GALLAUDET COLLEGE	14	14	0	0
258 MANSFIELD STATE COLLEGE	14	11	3	0
259 ST CLOUD STATE UNIVERSITY	14	14	0	0
260 JACKSONVILLE UNIVERSITY	12	0	12	0
TOTAL, 1ST 260 INSTS.	52,093	18,193	33,900	35
261 SUNY COLLEGE AT CORTLAND	12	7	5	0
262 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	12	2	10	0
263 UNIVERSITY OF NORTH ALABAMA	12	0	12	0
264 SAMFORD UNIVERSITY	11	4	7	0
265 KEARNEY STATE COLLEGE	10	8	2	0
266 INCARNATE WORD COLLEGE	10	6	4	0
267 WALLA WALLA COLLEGE	9	9	0	0
268 WESTERN STATE COLLEGE OF COLORADO	9	6	3	0
269 LYNCHBURG COLLEGE	8	3	5	0
270 BRIDGEWATER STATE COLLEGE	8	0	8	0
TOTAL, 1ST 270 INSTS.	52,194	18,238	33,956	35
271 STETSON UNIVERSITY	8	0	8	0
272 HARVEY MUDD COLLEGE	7	7	0	0
273 OCCIDENTAL COLLEGE	7	6	1	0
274 SUNY COLLEGE AT ONEONTA	5	3	2	0
275 WILKES COLLEGE	5	0	5	0
276 UNIVERSITY OF WISCONSIN - RIVER FALLS	5	3	2	0
277 WOLLINS COLLEGE	5	3	2	0
278 DE PAUW UNIVERSITY	4	4	0	0
279 GODDARD COLLEGE	4	4	0	0
280 SLIPPERY ROCK STATE COLLEGE	4	4	0	4
TOTAL, 1ST 280 INSTS.	52,248	18,272	33,976	39
281 MISSISSIPPI COLLEGE	4	1	3	0
282 FURMAN UNIVERSITY	4	4	0	0
283 PACIFIC UNIVERSITY	4	4	0	0
284 LOYOLA UNIVERSITY IN NEW ORLEANS	2	0	2	0
285 WHITTIER COLLEGE	2	1	1	0
286 VASSAR COLLEGE	2	0	2	0
287 SALEM STATE COLLEGE	1	0	1	0
288 MIDDLEBURY COLLEGE	1	1	0	0
289 WORLD UNIVERSITY	0	0	0	0
290 SWARTHMORE COLLEGE	0	0	0	0
TOTAL, 1ST 290 INSTS.	52,268	18,283	33,985	39
291 CHEYNEY STATE COLLEGE	0	0	0	0
TOTAL, 1ST 291 INSTS.	52,268	18,283	33,985	39

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
TOTAL, ALL INSTITUTIONS	24,108	8,724	15,384	15
1 SAN JOSE STATE UNIVERSITY	798	227	571	4
2 CALIF STATE UNIV AT LONG BEACH	779	86	693	0
3 ANTIOCH UNIVERSITY	623	610	13	0
4 CALIF STATE UNIVERSITY AT SACRAMENTO	606	281	325	0
5 JOHN F KENNEDY UNIVERSITY	554	200	354	0
6 CALIF STATE UNIV AT FULLERTON	503	88	415	0
7 SAN FRANCISCO STATE UNIVERSITY	491	185	306	1
8 CALIF STATE UNIVERSITY AT NORTHRIDGE	477	188	289	0
9 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	435	137	298	0
10 CALIF STATE UNIV AT LOS ANGELES	432	82	350	0
TOTAL, 1ST 10 INSTS.	5,698	2,084	3,614	5
11 RUSSELL SAGE COLLEGE	387	42	345	0
12 GOVERNORS STATE UNIVERSITY	382	34	348	0
13 GEORGE WILLIAMS COLLEGE	367	127	240	0
14 SANGAMON STATE UNIVERSITY	352	75	[illegible]	0
15 CALIF STATE UNIVERSITY AT FRESNO	345	99	246	0
16 LOYOLA COLLEGE	321	88	233	0
17 CALIF STATE UNIV AT HAYWARD	299	88	211	0
18 CUNY BERNARD BARUCH COLLEGE	298	61	237	0
19 MONTCLAIR STATE COLLEGE	274	30	244	0
20 PEPPERDINE UNIVERSITY	268	164	104	0
TOTAL, 1ST 20 INSTS.	8,991	2,892	6,099	5
21 CALIF STATE UNIV AT DOMINGUEZ HILLS	258	126	132	0
22 ROOSEVELT UNIVERSITY	248	55	193	0
23 MARYWOOD COLLEGE	243	36	207	0
24 HOOD COLLEGE	242	18	224	0
25 TOWSON STATE UNIVERSITY	237	57	180	0
26 ANNA MARIA COLLEGE	232	6	226	0
27 SOUTHWEST TEXAS STATE UNIVERSITY	202	82	120	0
28 CUNY QUEENS COLLEGE	197	83	114	1
29 SOUTHERN CONNECTICUT STATE COLLEGE	192	85	107	0
30 UNIVERSITY OF BRIDGEPORT	192	15	177	0
TOTAL, 1ST 30 INSTS.	11,234	3,455	7,779	6
31 WEST CHESTER UNIVERSITY	189	45	144	0
32 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	187	35	152	0
33 WEST VIRGINIA COLLEGE OF GRAD STUDIES	184	18	166	0
34 UNIVERSITY OF WISCONSIN - STOUT	181	115	66	0
35 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	178	69	109	0
36 BARRY COLLEGE	177	80	97	0
37 LOYOLA MARYMOUNT UNIVERSITY	175	129	46	0
38 NORTHWESTERN STATE UNIV OF LOUISIANA	170	53	117	0
39 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	166	128	38	0
40 UNIVERSITY OF SAN FRANCISCO	162	148	14	0
TOTAL, 1ST 40 INSTS.	13,003	4,275	8,728	6
41 THE HARTFORD GRADUATE CENTER	161	15	146	0
42 IONA COLLEGE	158	0	158	0
43 EASTERN MICHIGAN UNIVERSITY	152	65	87	0
44 ROCHESTER INSTITUTE OF TECHNOLOGY	144	13	131	0
45 EASTERN WASHINGTON UNIVERSITY	143	93	50	0
46 CALIF STATE COLLEGE OF STANISLAUS	140	77	63	0
47 WAGNER COLLEGE	135	10	125	0
48 WEST TEXAS STATE UNIVERSITY	131	25	106	0
49 WESTERN ILLINOIS UNIVERSITY	131	75	56	0
50 CUNY BROOKLYN COLLEGE	130	6	124	0
TOTAL, 1ST 50 INSTS.	14,428	4,654	9,774	6
51 UNIVERSITY OF WEST FLORIDA	127	49	78	0
52 RHODE ISLAND COLLEGE	127	53	74	0
53 COLLEGE OF NEW ROCHELLE	126	22	104	0
54 UNIVERSITY OF WISCONSIN - OSHKOSH	124	47	77	0
55 UNIVERSITY OF EVANSVILLE	124	14	110	0
56 UNIVERSITY OF HARTFORD	122	48	74	0
57 CENTRAL MISSOURI STATE UNIVERSITY	119	68	51	0
58 UNIVERSITY OF BALTIMORE	118	18	100	0
59 EMPORIA STATE UNIVERSITY - KANSAS	113	50	63	0
60 NATIONAL UNIVERSITY	112	83	29	0
TOTAL, 1ST 60 INSTS.	15,640	5,106	10,534	6

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

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INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
61 ASSUMPTION COLLEGE	112	25	87	0
62 MIDDLE TENNESSEE STATE UNIVERSITY	111	51	60	0
63 TRINITY UNIVERSITY	111	65	46	1
64 SUNY COLLEGE AT OSWEGO	110	24	86	0
65 NORTHEASTERN ILLINOIS UNIVERSITY	110	6	104	0
66 ST MARY'S COLLEGE	109	19	90	0
67 EDINBORO UNIVERSITY	109	34	75	0
68 MANKATO STATE UNIVERSITY	109	49	60	0
69 EASTERN NEW MEXICO UNIVERSITY	109	64	45	1
70 JACKSON STATE UNIVERSITY	109	45	64	0
TOTAL, 1ST 70 INSTS.	16,739	5,488	11,251	8
71 BISCAYNE COLLEGE	106	45	61	0
72 WESTERN WASHINGTON UNIVERSITY	103	81	22	0
73 SUFFOLK UNIVERSITY	101	12	89	0
74 UNIVERSITY OF NEVADA AT LAS VEGAS	100	49	51	0
75 ST MARY'S UNIVERSITY OF SAN ANTONIO	96	31	65	0
76 UNIVERSITY OF TEXAS AT TYLER	96	7	89	0
77 SEATTLE UNIVERSITY	92	30	62	0
78 PITTSBURG STATE UNIVERSITY	92	48	44	0
79 JAMES MADISON UNIVERSITY	92	58	34	0
80 CORPUS CHRISTI STATE UNIVERSITY	91	20	71	0
TOTAL, 1ST 80 INSTS.	17,708	5,869	11,839	8
81 UNIVERSITY OF WISCONSIN - STEVENS POINT	91	74	17	0
82 CALIF STATE UNIVERSITY AT CHICO	90	70	20	0
83 APPALACHIAN STATE UNIVERSITY	88	66	22	0
84 MILLERSVILLE STATE COLLEGE	88	14	74	0
85 HAMPTON INSTITUTE	87	59	28	0
86 UNIV OF NORTH CAROLINA AT CHARLOTTE	87	27	60	0
87 TENNESSEE STATE UNIVERSITY	83	19	64	0
88 UNIVERSITY OF SAN DIEGO	82	33	49	0
89 PACIFIC LUTHERAN UNIVERSITY	82	33	49	0
90 UNIVERSITY OF PORTLAND	81	75	6	0
TOTAL, 1ST 90 INSTS.	18,567	6,339	12,228	8
91 UNIVERSITY OF SCRANTON	81	31	50	0
92 AMERICAN INTERNATIONAL COLLEGE	79	9	70	0
93 PRAIRIE VIEW A & M UNIVERSITY	79	56	23	0
94 COLLEGE OF ST ROSE	78	0	78	0
95 TEXAS SOUTHERN UNIVERSITY	78	49	29	0
96 WORCESTER STATE COLLEGE	75	0	75	0
97 ALABAMA A & M UNIVERSITY	75	59	16	1
98 UNIVERSITY OF CENTRAL ARKANSAS	75	24	51	0
99 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	75	30	45	0
100 TRENTON STATE COLLEGE	74	4	70	0
TOTAL, 1ST 100 INSTS.	19,336	6,601	12,735	9
101 XAVIER UNIVERSITY	73	53	20	0
102 ST JOSEPH COLLEGE	73	0	73	0
103 SPALDING COLLEGE	72	5	67	0
104 GEORGIA COLLEGE	70	4	66	0
105 FORT HAYS STATE UNIVERSITY	69	27	42	0
106 ANDREWS UNIVERSITY	68	18	50	0
107 WESTERN CAROLINA UNIVERSITY	68	38	30	0
108 WESTERN KENTUCKY UNIVERSITY	68	35	33	0
109 KEAN COLLEGE OF NEW JERSEY	67	6	61	0
110 NORTHEAST MISSOURI STATE UNIVERSITY	67	46	21	0
TOTAL, 1ST 110 INSTS.	20,031	6,833	13,198	9
111 WILLIAM PATERSON COLLEGE	66	14	52	0
112 UNIVERSITY OF THE DISTRICT OF COLUMBIA	66	28	38	0
113 AZUSA PACIFIC UNIVERSITY	65	60	5	0
114 SUNY COLLEGE AT NEW PALTZ	65	24	41	0
115 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	65	46	19	0
116 INDIANA UNIVERSITY OF PENNSYLVANIA	64	40	24	0
117 EASTERN KENTUCKY UNIVERSITY	63	42	21	0
118 MIDWESTERN STATE UNIVERSITY	62	15	47	0
119 CALIF STATE COLLEGE AT SAN BERNARDINO	59	26	33	0
120 FRAMINGHAM STATE COLLEGE	59	13	46	0
TOTAL, 1ST 120 INSTS.	20,665	7,141	13,524	9

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
121 ARKANSAS STATE UNIVERSITY	57	32	25	0
122 UNIVERSITY OF WISCONSIN - EAU CLAIRE	56	38	18	0
123 UNIV OF ALASKA AT ANCHORAGE	55	14	41	0
124 SHIPPENSBURG STATE COLLEGE	54	2	52	0
125 NORTH CAROLINA CENTRAL UNIVERSITY	54	27	27	0
126 CENTRAL WASHINGTON UNIVERSITY	54	39	15	0
127 EASTERN ILLINOIS UNIVERSITY	52	39	13	0
128 UNIVERSITY OF TEXAS AT SAN ANTONIO	52	15	37	0
129 CLARION STATE COLLEGE	50	9	41	0
130 WASHINGTON COLLEGE	49	0	49	0
TOTAL, 1ST 130 INSTS.	21,198	7,356	13,842	9
131 DRAKE UNIVERSITY	49	17	32	0
132 CENTRAL CONNECTICUT STATE UNIVERSITY	48	11	37	0
133 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	47	12	35	0
134 SARAH LAWRENCE COLLEGE	46	43	3	0
135 SUNY COLLEGE AT BROCKPORT	46	6	40	0
136 SUNY COLLEGE AT GENESEO	45	33	12	0
137 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	44	10	34	1
138 WESTERN NEW ENGLAND COL	43	0	43	0
139 EMERSON COLLEGE	43	39	4	0
140 DOMINICAN COLLEGE OF SAN RAFAEL	43	15	28	0
TOTAL, 1ST 140 INSTS.	21,652	7,542	14,110	10
141 SONOMA STATE UNIVERSITY	42	10	32	0
142 MCNEESE STATE UNIVERSITY	41	10	31	0
143 WHITWORTH COLLEGE	41	41	0	0
144 WEST GEORGIA COLLEGE	40	27	13	0
145 MONMOUTH COLLEGE(NJ)	39	6	33	0
146 NEW MEXICO HIGHLANDS UNIVERSITY	39	38	1	0
147 ITHACA COLLEGE	39	24	15	0
148 MANHATTAN COLLEGE	39	19	20	0
149 SUNY COLLEGE AT PLATTSBURGH	38	23	15	0
150 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	38	14	24	0
TOTAL, 1ST 150 INSTS.	22,048	7,754	14,294	10
151 RADFORD UNIVERSITY	38	27	11	0
152 UNIVERSITY OF REDLANDS	38	22	16	0
153 MOREHEAD STATE UNIVERSITY	37	17	20	0
154 COLLEGE OF CHARLESTON	37	12	25	0
155 NORTHWEST MISSOURI STATE UNIVERSITY	36	11	25	0
156 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	36	6	30	0
157 NORTHERN MICHIGAN UNIVERSITY	35	19	16	0
158 FROSTBURG STATE COLLEGE	35	12	23	0
159 BRADLEY UNIVERSITY	34	17	17	0
160 GANNON COLLEGE	34	13	21	0
TOTAL, 1ST 160 INSTS.	22,408	7,910	14,498	10
161 TUSKEGEE INSTITUTE	33	33	0	2
162 SOUTHWEST MISSOURI STATE UNIVERSITY	33	15	18	0
163 VALDOSTA STATE COLLEGE	33	22	11	0
164 GEORGIA SOUTHERN COLLEGE	33	22	11	0
165 MOORHEAD STATE UNIVERSITY	33	23	10	0
166 INDIANA CENTRAL UNIVERSITY	33	31	2	0
167 UNIVERSITY OF WISCONSIN - LA CROSSE	33	24	9	0
168 MARIST COLLEGE	32	13	19	0
169 UNIVERSITY OF WISCONSIN - WHITEWATER	32	18	14	0
170 VIRGINIA STATE UNIVERSITY	31	20	11	0
TOTAL, 1ST 170 INSTS.	22,734	8,131	14,603	12
171 WESTERN OREGON STATE COLLEGE	31	9	22	0
172 CITADEL MILITARY COLL OF SOUTH CAROLINA	30	2	28	0
173 YOUNGSTOWN STATE UNIVERSITY	30	11	19	0
174 AMERICAN TECHNOLOGICAL UNIVERSITY	29	14	15	0
175 BUTLER UNIVERSITY	29	1	28	0
176 AUSTIN PEAY STATE UNIVERSITY	29	11	18	0
177 MONTEREY INST OF INTL STUDIES	29	24	5	0
178 TROY STATE UNIVERSITY AT MONTGOMERY	28	0	28	0
179 SAINT FRANCIS COLLEGE	28	6	22	0
180 WINTHROP COLLEGE	27	14	13	0
TOTAL, 1ST 180 INSTS.	23,024	8,223	14,801	12

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING		TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
181	NORTH CAROLINA A & T STATE UNIVERSITY	27	15	12	0
182	RIVIER COLLEGE	27	1	26	0
183	SOUTHERN UNIVERSITY A & M COLLEGE	26	13	13	0
184	JACKSONVILLE STATE UNIVERSITY	25	9	16	0
185	ANGELO STATE UNIVERSITY	25	9	16	0
186	MURRAY STATE UNIVERSITY	25	17	8	0
187	HUMBOLDT STATE UNIVERSITY	25	13	12	0
188	MISSISSIPPI UNIVERSITY FOR WOMEN	24	12	12	0
189	SUL ROSS STATE UNIVERSITY	24	15	9	0
190	ADAMS STATE UNIVERSITY	23	10	13	0
	TOTAL, 1ST 190 INSTS.	23,275	8,337	14,938	12
191	CALIFORNIA STATE COLLEGE	22	9	13	0
192	CHAPMAN COLLEGE	22	1	21	0
193	CHICAGO STATE UNIVERSITY	21	2	19	0
194	KUTZTOWN STATE COLLEGE	21	1	20	0
195	FLORIDA INTERNATIONAL UNIVERSITY	21	7	14	0
196	UNIVERSITY OF WISCONSIN - GREEN BAY	21	7	14	0
197	FLORIDA A & M UNIVERSITY	21	19	2	0
198	CONNECTICUT COLLEGE	20	14	6	0
199	SUNY COLLEGE AT BUFFALO	19	12	7	0
200	PRATT INSTITUTE	19	5	14	0
	TOTAL, 1ST 200 INSTS.	23,482	8,414	15,068	12
201	SOUTHERN OREGON STATE COLLEGE	18	12	6	0
202	CUNY LEHMAN COLLEGE	18	12	6	1
203	ABILENE CHRISTIAN UNIVERSITY	18	14	4	0
204	FISK UNIVERSITY	18	17	1	0
205	UNIVERSITY OF MONTEVALLO	18	12	6	0
206	UNIVERSITY OF RICHMOND	17	9	8	0
207	MORGAN STATE UNIVERSITY	16	9	7	0
208	JOHN CARROLL UNIVERSITY	15	6	9	0
209	WEST COAST UNIVERSITY	15	13	2	0
210	AUGUSTA COLLEGE	15	7	8	0
	TOTAL, 1ST 210 INSTS.	23,650	8,525	15,125	13
211	MOUNT HOLYOKE COLLEGE	14	12	2	0
212	ST JOSEPH'S UNIVERSITY	14	2	12	0
213	TARLETON STATE UNIVERSITY	14	8	6	0
214	TRINITY COLLEGE	14	0	14	0
215	UNIVERSITY OF PUGET SOUND	14	14	0	0
216	NICHOLLS STATE UNIVERSITY	13	6	7	0
217	UNIV OF MASSACHUSETTS-BOSTON	12	8	4	0
218	EAST STROUDSBURG STATE COLLEGE	12	3	9	0
219	SUNY COLLEGE AT POTSDAM	12	1	11	0
220	GALLAUDET COLLEGE	12	12	0	0
	TOTAL, 1ST 220 INSTS.	23,781	8,591	15,190	13
221	EAST CENTRAL OKLAHOMA STATE UNIV	12	4	8	0
222	COPPIN STATE COLLEGE	12	2	10	0
223	LORAS COLLEGE	12	0	12	0
224	PAN AMERICAN UNIVERSITY	11	3	8	0
225	MANSFIELD STATE COLLEGE	10	7	3	0
226	SOUTHEAST MISSOURI STATE UNIVERSITY	10	5	5	0
227	UNIVERSITY OF GUAM	10	0	10	0
228	SUNY COLLEGE AT FREDONIA	9	4	5	0
229	WIDENER UNIVERSITY	9	1	8	0
230	WESTERN CONNECTICUT STATE UNIVERSITY	9	1	8	0
	TOTAL, 1ST 230 INSTS.	23,885	8,618	15,267	13
231	UNIVERSITY OF WISCONSIN - PLATTEVILLE	9	5	4	0
232	ALABAMA STATE UNIVERSITY	9	8	1	0
233	WASHBURN UNIV OF TOPEKA	9	3	6	0
234	SUNY COLLEGE AT CORTLAND	9	6	3	0
235	HENDERSON STATE UNIVERSITY	8	1	7	0
236	GRAMBLING STATE UNIVERSITY	8	5	3	0
237	BLOOMSBURG STATE COLLEGE	8	2	6	0
238	UNIV OF ALASKA SOUTHEAST	8	1	7	0
239	QUINNIPIAC COLLEGE	7	7	0	0
240	ST CLOUD STATE UNIVERSITY	7	7	0	0
	TOTAL, 1ST 240 INSTS.	23,967	8,663	15,304	13

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TABLE E-8. MASTER'S-GRANTING INSTITUTIONS RANKED BY FEMALE SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL FEMALE STUDENTS	FEMALE FULL-TIME STUDENTS	FEMALE PART-TIME STUDENTS	FEMALE POST-DOCTORATES
241 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	7	6	1	0
242 UNIVERSITY OF LA VERNE	7	0	7	0
243 SOUTHEASTERN LOUISIANA UNIVERSITY	7	5	2	0
244 BUCKNELL UNIVERSITY	7	4	3	0
245 CALIFORNIA LUTHERAN COLLEGE	6	1	5	0
246 ROLLINS COLLEGE	6	1	5	0
247 DREW UNIVERSITY	6	1	5	0
248 INCARNATE WORD COLLEGE	6	4	2	0
249 SAMFORD UNIVERSITY	6	2	4	0
250 JACKSONVILLE UNIVERSITY	5	0	5	0
TOTAL, 1ST 250 INSTS.	24,030	8,687	15,343	13
251 WESTERN STATE COLLEGE OF COLORADO	5	3	2	0
252 BEMIDJI STATE UNIVERSITY	5	1	4	0
253 COOPER UNION	4	4	0	0
254 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	4	1	3	0
255 WILLIAMS COLLEGE	4	4	0	0
256 MIDWEST COLLEGE OF ENGINEERING	4	0	4	0
257 KEARNEY STATE COLLEGE	4	3	1	0
258 WALLA WALLA COLLEGE	3	3	0	0
259 ARMSTRONG STATE COLLEGE	3	0	3	0
260 VALPARAISO UNIVERSITY	3	2	1	0
TOTAL, 1ST 260 INSTS.	24,069	8,708	15,361	13
261 NIAGARA UNIVERSITY	3	2	1	0
262 MILWAUKEE SCHOOL OF ENGINEERING	3	0	3	0
263 PACIFIC STATES UNIVERSITY	3	2	1	0
264 OCCIDENTAL COLLEGE	3	2	1	0
265 MISSISSIPPI COLLEGE	3	1	2	0
266 BRIDGEWATER STATE COLLEGE	3	0	3	0
267 SLIPPERY ROCK STATE COLLEGE	2	2	0	2
268 UNIVERSITY OF NORTH ALABAMA	2	0	2	0
269 WILKES COLLEGE	2	0	2	0
270 NORTHROP UNIVERSITY	2	1	1	0
TOTAL, 1ST 270 INSTS.	24,095	8,718	15,377	15
271 VASSAR COLLEGE	2	0	2	0
272 GODDARD COLLEGE	2	2	0	0
273 LYNCHBURG COLLEGE	1	0	1	0
274 CALIF STATE POLYTECHNIC UNIV AT POMONA	1	1	0	0
275 HOLLINS COLLEGE	1	0	1	0
276 LOYOLA UNIVERSITY IN NEW ORLEANS	1	0	1	0
277 DE PAUW UNIVERSITY	1	1	0	0
278 WHITTIER COLLEGE	1	0	1	0
279 SUNY COLLEGE AT ONEONTA	1	1	0	0
280 PACIFIC UNIVERSITY	1	1	0	0
TOTAL, 1ST 280 INSTS.	24,107	8,724	15,383	15
281 STETSON UNIVERSITY	1	0	1	0
282 CHEYNEY STATE COLLEGE	0	0	0	0
283 UNIVERSITY OF NEW HAVEN	0	0	0	0
284 FURMAN UNIVERSITY	0	0	0	0
285 WORLD UNIVERSITY	0	0	0	0
286 SWARTHMORE COLLEGE	0	0	0	0
287 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	0	0	0
288 SALEM STATE COLLEGE	0	0	0	0
289 MIDDLEBURY COLLEGE	0	0	0	0
290 HARVEY MUDD COLLEGE	0	0	0	0
TOTAL, 1ST 290 INSTS.	24,108	8,724	15,384	15
291 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0	0
TOTAL, 1ST 291 INSTS.	24,108	8,724	15,384	15

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

	INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
	TOTAL, ALL INSTITUTIONS	3,053	1,251	1,802
1	JACKSON STATE UNIVERSITY	158	70	88
2	GOVERNORS STATE UNIVERSITY	141	16	125
3	PRAIRIE VIEW A & M UNIVERSITY	112	82	30
4	CALIF STATE UNIV AT DOMINGUEZ HILLS	110	59	51
5	CALIF STATE UNIV AT LOS ANGELES	97	21	76
6	ALABAMA A & M UNIVERSITY	79	57	22
7	BISCAYNE COLLEGE	77	28	49
8	UNIVERSITY OF BALTIMORE	76	13	63
9	NORTH CAROLINA CENTRAL UNIVERSITY	71	30	41
10	UNIVERSITY OF THE DISTRICT OF COLUMBIA	70	35	35
	TOTAL, 1ST 10 INSTS.	991	411	580
11	HAMPTON INSTITUTE	69	49	20
12	SAN JOSE STATE UNIVERSITY	58	7	51
13	UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	53	14	39
14	TUSKEGEE INSTITUTE	52	50	2
15	CALIF STATE UNIV AT HAYNARD	51	13	38
16	MARYMOOD COLLEGE	46	5	41
17	SOUTHERN UNIVERSITY A & M COLLEGE	44	16	28
18	NORTH CAROLINA A & T STATE UNIVERSITY	43	28	15
19	GEORGE WILLIAMS COLLEGE	38	11	27
20	SANGAMON STATE UNIVERSITY	36	5	31
	TOTAL, 1ST 20 INSTS.	1,481	609	872
21	TOWSON STATE UNIVERSITY	33	8	25
22	LOYOLA COLLEGE	32	3	29
23	SAN FRANCISCO STATE UNIVERSITY	32	11	21
24	NATIONAL UNIVERSITY	31	22	9
25	SOUTHWEST TEXAS STATE UNIVERSITY	31	12	19
26	UNIVERSITY OF ARKANSAS AT LITTLE ROCK	30	10	20
27	COLLEGE OF NEW ROCHELLE	29	3	26
28	UNIVERSITY OF NEW HAVEN	29	5	24
29	MORGAN STATE UNIVERSITY	28	17	11
30	TENNESSEE STATE UNIVERSITY	28	23	5
	TOTAL, 1ST 30 INSTS.	1,784	723	1,061
31	EASTERN MICHIGAN UNIVERSITY	27	12	15
32	CHICAGO STATE UNIVERSITY	27	3	24
33	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	25	23	2
34	FISK UNIVERSITY	24	22	2
35	COPPIN STATE COLLEGE	24	4	20
36	CUNY BERNARD BARUCH COLLEGE	24	0	24
37	ANTIOCH UNIVERSITY	23	23	0
38	WEST VIRGINIA COLLEGE OF GRAD STUDIES	23	3	20
39	ROCHESTER INSTITUTE OF TECHNOLOGY	23	6	17
40	IONA COLLEGE	22	0	22
	TOTAL, 1ST 40 INSTS.	2,026	819	1,207
41	VIRGINIA STATE UNIVERSITY	22	21	1
42	BARRY COLLEGE	21	8	13
43	UNIVERSITY OF BRIDGEPORT	21	0	21
44	JOHN F KENNEDY UNIVERSITY	20	7	13
45	JACKSONVILLE STATE UNIVERSITY	19	7	12
46	ROOSEVELT UNIVERSITY	18	1	17
47	SEATTLE UNIVERSITY	18	10	8
48	SUFFOLK UNIVERSITY	18	3	15
49	PEPPERDINE UNIVERSITY	18	11	7
50	CALIF STATE UNIV AT FULLERTON	18	1	17
	TOTAL, 1ST 50 INSTS.	2,219	888	1,331
51	LOYOLA MARYMOUNT UNIVERSITY	18	10	8
52	AMERICAN TECHNOLOGICAL UNIVERSITY	17	10	7
53	NORTHWESTERN STATE UNIV OF LOUISIANA	17	11	6
54	CALIF STATE UNIVERSITY AT FRESNO	17	2	15
55	UNIV OF NORTH CAROLINA AT CHARLOTTE	17	7	10
56	SOUTHERN CONNECTICUT STATE COLLEGE	16	9	7
57	MIDDLE TENNESSEE STATE UNIVERSITY	16	8	8
58	CUNY QUEENS COLLEGE	15	7	8
59	VALDOSTA STATE COLLEGE	15	15	0
60	MANKATO STATE UNIVERSITY	14	3	11
	TOTAL, 1ST 60 INSTS.	2,381	970	1,411

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
61 TRINITY UNIVERSITY	14	11	3
62 MONTCLAIR STATE COLLEGE	14	0	14
63 CALIF STATE UNIVERSITY AT NORTHRIDGE	14	3	11
64 WEST COAST UNIVERSITY	14	13	1
65 GRAMBLING STATE UNIVERSITY	14	13	1
66 RUSSELL SAGE COLLEGE	14	2	12
67 GEORGIA SOUTHERN COLLEGE	13	7	6
68 MCNEESE STATE UNIVERSITY	13	6	7
69 ARKANSAS STATE UNIVERSITY	13	6	7
70 CALIF STATE COLLEGE AT SAN BERNARDINO	13	8	5
TOTAL, 1ST 70 INSTS.	2,517	1,039	1,478
71 MILWAUKEE SCHOOL OF ENGINEERING	12	0	12
72 UNIVERSITY OF CENTRAL ARKANSAS	12	9	3
73 ST MARY'S UNIVERSITY OF SAN ANTONIO	12	5	7
74 AMERICAN INTERNATIONAL COLLEGE	12	8	4
75 WASHINGTON COLLEGE	12	0	12
76 NORTHEASTERN ILLINOIS UNIVERSITY	11	1	10
77 CENTRAL MISSOURI STATE UNIVERSITY	11	6	5
78 UNIVERSITY OF WISCONSIN - STOUT	11	8	3
79 HOOD COLLEGE	11	1	10
80 PITTSBURG STATE UNIVERSITY	11	5	6
TOTAL, 1ST 80 INSTS.	2,632	1,082	1,550
81 ALABAMA STATE UNIVERSITY	11	11	0
82 INDIANA UNIVERSITY OF PENNSYLVANIA	11	10	1
83 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	11	4	7
84 UNIVERSITY OF TEXAS AT TYLER	10	1	9
85 TEXAS SOUTHERN UNIVERSITY	10	8	2
86 UNIVERSITY OF HARTFORD	9	0	9
87 GEORGIA COLLEGE	9	0	9
88 AUSTIN PEAY STATE UNIVERSITY	9	2	7
89 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	9	3	6
90 UNIVERSITY OF SCRANTON	9	3	6
TOTAL, 1ST 90 INSTS.	2,730	1,124	1,606
91 UNIVERSITY OF WEST FLORIDA	9	5	4
92 WEST CHESTER UNIVERSITY	9	2	7
93 COLLEGE OF CHARLESTON	9	3	6
94 CALIF STATE COLLEGE OF STANISLAUS	8	4	4
95 CALIF STATE POLYTECHNIC UNIV AT POMONA	8	0	8
96 WILLIAM PATERSON COLLEGE	8	3	5
97 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	7	2	5
98 WESTERN NEW ENGLAND COL	7	0	7
99 UNIV OF ALASKA AT ANCHORAGE	7	2	5
100 MIDWESTERN STATE UNIVERSITY	7	1	6
TOTAL, 1ST 100 INSTS.	2,809	1,146	1,663
101 UNIVERSITY OF SAN FRANCISCO	6	4	2
102 EASTERN NEW MEXICO UNIVERSITY	6	3	3
103 SUL ROSS STATE UNIVERSITY	6	6	0
104 NEW MEXICO HIGHLANDS UNIVERSITY	6	6	0
105 SPALDING COLLEGE	6	1	5
106 TROY STATE UNIVERSITY AT MONTGOMERY	5	0	5
107 MONTEREY INST OF INTL STUDIES	5	5	0
108 CALIF STATE UNIVERSITY AT SACRAMENTO	5	3	2
109 ROLLINS COLLEGE	5	0	5
110 CHAPMAN COLLEGE	5	0	5
TOTAL, 1ST 110 INSTS.	2,864	1,174	1,690
111 KEAN COLLEGE OF NEW JERSEY	5	2	3
112 CORPUS CHRISTI STATE UNIVERSITY	5	0	5
113 COLLEGE OF ST ROSE	5	0	5
114 XAVIER UNIVERSITY	5	4	1
115 EDINBORO UNIVERSITY	4	2	2
116 UNIVERSITY OF TEXAS AT SAN ANTONIO	4	2	2
117 ANDREWS UNIVERSITY	4	3	1
118 UNIVERSITY OF WISCONSIN - OSHKOSH	4	2	2
119 MANHATTAN COLLEGE	4	1	3
120 WESTERN CAROLINA UNIVERSITY	4	2	2
TOTAL, 1ST 120 INSTS.	2,908	1,192	1,716

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
121 YOUNGSTOWN STATE UNIVERSITY	4	1	3
122 EMPORIA STATE UNIVERSITY - KANSAS	4	2	2
123 MISSISSIPPI UNIVERSITY FOR WOMEN	4	2	2
124 WESTERN ILLINOIS UNIVERSITY	4	4	0
125 WINTHROP COLLEGE	4	2	2
126 NORTHWEST MISSOURI STATE UNIVERSITY	4	4	0
127 PACIFIC LUTHERAN UNIVERSITY	4	3	1
128 EASTERN WASHINGTON UNIVERSITY	4	3	1
129 WESTERN KENTUCKY UNIVERSITY	4	1	3
130 FLORIDA INTERNATIONAL UNIVERSITY	3	0	3
TOTAL, 1ST 130 INSTS.	2,947	1,214	1,733
131 WEST TEXAS STATE UNIVERSITY	3	0	3
132 ST JOSEPH COLLEGE	3	0	3
133 UNIVERSITY OF NEVADA AT LAS VEGAS	3	1	2
134 EASTERN ILLINOIS UNIVERSITY	3	3	0
135 SUNY COLLEGE AT BROCKPORT	3	0	3
136 SARAH LAWRENCE COLLEGE	3	2	1
137 SUNY COLLEGE AT BUFFALO	3	1	2
138 TRENTON STATE COLLEGE	3	0	3
139 WESTERN OREGON STATE COLLEGE	3	2	1
140 ANGELO STATE UNIVERSITY	2	0	2
TOTAL, 1ST 140 INSTS.	2,976	1,223	1,753
141 TRINITY COLLEGE	2	0	2
142 UNIVERSITY OF WISCONSIN - PLATTEVILLE	2	2	0
143 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	2	0	2
144 RHODE ISLAND COLLEGE	2	1	1
145 QUINNIPIAC COLLEGE	2	0	2
146 ST JOSEPH'S UNIVERSITY	2	0	2
147 EASTERN KENTUCKY UNIVERSITY	2	2	0
148 AZUSA PACIFIC UNIVERSITY	2	2	0
149 MILLERSVILLE STATE COLLEGE	2	1	1
150 ANNA MARIA COLLEGE	2	0	2
TOTAL, 1ST 150 INSTS.	2,996	1,231	1,765
151 DOMINICAN COLLEGE OF SAN RAFAEL	2	1	1
152 WIDENER UNIVERSITY	2	0	2
153 UNIVERSITY OF EVANSVILLE	2	1	1
154 GANNON COLLEGE	2	0	2
155 WAGNER COLLEGE	2	0	2
156 SONOMA STATE UNIVERSITY	2	0	2
157 FROSTBURG STATE COLLEGE	2	1	1
158 THE HARTFORD GRADUATE CENTER	2	0	2
159 DRAKE UNIVERSITY	2	1	1
160 MARIST COLLEGE	1	0	1
TOTAL, 1ST 160 INSTS.	3,015	1,235	1,780
161 NORTHEAST MISSOURI STATE UNIVERSITY	1	1	0
162 UNIV OF MASSACHUSETTS-BOSTON	1	0	1
163 PRATT INSTITUTE	1	0	1
164 RIVIER COLLEGE	1	0	1
165 ST MARY'S COLLEGE	1	0	1
166 MURRAY STATE UNIVERSITY	1	1	0
167 SUNY COLLEGE AT CORTLAND	1	0	1
168 SUNY COLLEGE AT FREDONIA	1	1	0
169 UNIVERSITY OF NORTH ALABAMA	1	0	1
170 SUNY COLLEGE AT NEW PALTZ	1	1	0
TOTAL, 1ST 170 INSTS.	3,025	1,239	1,786
171 FLORIDA A & M UNIVERSITY	1	1	0
172 SUNY COLLEGE AT OSWEGO	1	0	1
173 WEST GEORGIA COLLEGE	1	1	0
174 BRADLEY UNIVERSITY	1	1	0
175 UNIVERSITY OF WISCONSIN - WHITEWATER	1	0	1
176 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	1	0	1
177 BUTLER UNIVERSITY	1	0	1
178 APPALACHIAN STATE UNIVERSITY	1	1	0
179 SAINT FRANCIS COLLEGE	1	0	1
180 UNIVERSITY OF RICHMOND	1	0	1
TOTAL, 1ST 180 INSTS.	3,035	1,243	1,792

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING		TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
181	HOLLINS COLLEGE	1	1	0
182	RADFORD UNIVERSITY	1	1	0
183	CALIFORNIA LUTHERAN COLLEGE	1	0	1
184	UNIVERSITY OF SAN DIEGO	1	1	0
185	EAST CENTRAL OKLAHOMA STATE UNIV	1	1	0
186	INDIANA CENTRAL UNIVERSITY	1	0	1
187	MIDWEST COLLEGE OF ENGINEERING	1	0	1
188	JACKSONVILLE UNIVERSITY	1	0	1
189	SHIPPENSBURG STATE COLLEGE	1	0	1
190	UNIVERSITY OF PORTLAND	1	1	0
	TOTAL, 1ST 190 INSTS.	3,045	1,248	1,797
191	EAST STROUDSBURG STATE COLLEGE	1	0	1
192	INCARNATE WORD COLLEGE	1	0	1
193	GODDARD COLLEGE	1	1	0
194	UNIVERSITY OF WISCONSIN - STEVENS POINT	1	1	0
195	WESTERN STATE COLLEGE OF COLORADO	1	0	1
196	CALIFORNIA STATE COLLEGE	1	1	0
197	KUTZTOWN STATE COLLEGE	1	0	1
198	CENTRAL CONNECTICUT STATE UNIVERSITY	1	0	1
199	CHEYNEY STATE COLLEGE	0	0	0
200	FORT HAYS STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 200 INSTS.	3,053	1,251	1,802
201	BLOOMSBURG STATE COLLEGE	0	0	0
202	SALEM STATE COLLEGE	0	0	0
203	BUCKNELL UNIVERSITY	0	0	0
204	SOUTHERN OREGON STATE COLLEGE	0	0	0
205	COOPER UNION	0	0	0
206	LORAS COLLEGE	0	0	0
207	PACIFIC UNIVERSITY	0	0	0
208	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	0	0
209	JOHN CARROLL UNIVERSITY	0	0	0
210	VALPARAISO UNIVERSITY	0	0	0
	TOTAL, 1ST 210 INSTS.	3,053	1,251	1,802
211	EMERSON COLLEGE	0	0	0
212	MONMOUTH COLLEGE(NJ)	0	0	0
213	CUNY BROOKLYN COLLEGE	0	0	0
214	DREW UNIVERSITY	0	0	0
215	KEARNEY STATE COLLEGE	0	0	0
216	SUNY COLLEGE AT POTSDAM	0	0	0
217	SLIPPERY ROCK STATE COLLEGE	0	0	0
218	SUNY COLLEGE AT PLATTSBURGH	0	0	0
219	ARMSTRONG STATE COLLEGE	0	0	0
220	ABILENE CHRISTIAN UNIVERSITY	0	0	0
	TOTAL, 1ST 220 INSTS.	3,053	1,251	1,802
221	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	0	0
222	FRAMINGHAM STATE COLLEGE	0	0	0
223	STETSON UNIVERSITY	0	0	0
224	PAN AMERICAN UNIVERSITY	0	0	0
225	ITHACA COLLEGE	0	0	0
226	WASHBURN UNIV OF TOPEKA	0	0	0
227	SWARTHMORE COLLEGE	0	0	0
228	DE PAUW UNIVERSITY	0	0	0
229	TARLETON STATE UNIVERSITY	0	0	0
230	SOUTHEAST MISSOURI STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 230 INSTS.	3,053	1,251	1,802
231	MISSISSIPPI COLLEGE	0	0	0
232	NICHOLLS STATE UNIVERSITY	0	0	0
233	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0
234	MIDDLEBURY COLLEGE	0	0	0
235	WESTERN CONNECTICUT STATE UNIVERSITY	0	0	0
236	NIAGARA UNIVERSITY	0	0	0
237	LYNCHBURG COLLEGE	0	0	0
238	JAMES MADISON UNIVERSITY	0	0	0
239	WILKES COLLEGE	0	0	0
240	MOREHEAD STATE UNIVERSITY	0	0	0
	TOTAL, 1ST 240 INSTS.	3,053	1,251	1,802

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TABLE E-9. MASTER'S-GRANTING INSTITUTIONS RANKED BY BLACK SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

- CONTINUED

INSTITUTIONAL RANKING	TOTAL BLACK STUDENTS	BLACK FULL-TIME STUDENTS	BLACK PART-TIME STUDENTS
241 CONNECTICUT COLLEGE	0	0	0
242 CENTRAL WASHINGTON UNIVERSITY	0	0	0
243 ST CLOUD STATE UNIVERSITY	0	0	0
244 MOORHEAD STATE UNIVERSITY	0	0	0
245 CITADEL MILITARY COLL OF SOUTH CAROLINA	0	0	0
246 UNIVERSITY OF PUGET SOUND	0	0	0
247 WALLA WALLA COLLEGE	0	0	0
248 WESTERN WASHINGTON UNIVERSITY	0	0	0
249 WHITWORTH COLLEGE	0	0	0
250 FURMAN UNIVERSITY	0	0	0
TOTAL, 1ST 250 INSTS.	3,053	1,251	1,802
251 UNIVERSITY OF WISCONSIN - GREEN BAY	0	0	0
252 ADAMS STATE UNIVERSITY	0	0	0
253 UNIVERSITY OF WISCONSIN - EAU CLAIRE	0	0	0
254 UNIVERSITY OF WISCONSIN - LA CROSSE	0	0	0
255 LOYOLA UNIVERSITY IN NEW ORLEANS	0	0	0
256 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	0	0
257 SUNY COLLEGE AT GENESEO	0	0	0
258 VASSAR COLLEGE	0	0	0
259 UNIVERSITY OF GUAM	0	0	0
260 WHITTIER COLLEGE	0	0	0
TOTAL, 1ST 260 INSTS.	3,053	1,251	1,802
261 UNIVERSITY OF REDLANDS	0	0	0
262 AUGUSTA COLLEGE	0	0	0
263 PACIFIC STATES UNIVERSITY	0	0	0
264 WORLD UNIVERSITY	0	0	0
265 OCCIDENTAL COLLEGE	0	0	0
266 CUNY LEHMAN COLLEGE	0	0	0
267 BEMIDJI STATE UNIVERSITY	0	0	0
268 NORTHROP UNIVERSITY	0	0	0
269 UNIVERSITY OF LA VERNE	0	0	0
270 NORTHERN MICHIGAN UNIVERSITY	0	0	0
TOTAL, 1ST 270 INSTS.	3,053	1,251	1,802
271 HARVEY MUDD COLLEGE	0	0	0
272 SOUTHEASTERN LOUISIANA UNIVERSITY	0	0	0
273 HUMBOLDT STATE UNIVERSITY	0	0	0
274 CALIF STATE UNIVERSITY AT CHICO	0	0	0
275 CLARION STATE COLLEGE	0	0	0
276 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	0	0	0
277 WILLIAMS COLLEGE	0	0	0
278 ASSUMPTION COLLEGE	0	0	0
279 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	0	0	0
280 MOUNT HOLYOKE COLLEGE	0	0	0
TOTAL, 1ST 280 INSTS.	3,053	1,251	1,802
281 SUNY COLLEGE AT ONEONTA	0	0	0
282 GALLAUDET COLLEGE	0	0	0
283 BRIDGEWATER STATE COLLEGE	0	0	0
284 CALIF STATE UNIV AT LONG BEACH	0	0	0
285 WORCESTER STATE COLLEGE	0	0	0
286 SOUTHWEST MISSOURI STATE UNIVERSITY	0	0	0
287 HENDERSON STATE UNIVERSITY	0	0	0
288 SAMFORD UNIVERSITY	0	0	0
289 UNIV OF ALASKA SOUTHEAST	0	0	0
290 UNIVERSITY OF MONTEVALLO	0	0	0
TOTAL, 1ST 290 INSTS.	3,053	1,251	1,802
291 MANSFIELD STATE COLLEGE	0	0	0
TOTAL, 1ST 291 INSTS.	3,053	1,251	1,802

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
TOTAL, ALL INSTITUTIONS	19,113	7,219	724	5,663	5,507
1 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	665	0	0	0	665
2 UNIVERSITY OF CALIF AT BERKELEY	555	133	45	254	123
3 UNIVERSITY OF SOUTHERN CALIFORNIA	509	172	9	175	153
4 UNIVERSITY OF CALIF AT LOS ANGELES	445	69	5	257	114
5 UNIVERSITY OF HAWAII AT MANOA	408	9	13	354	32
6 HOWARD UNIVERSITY	309	303	0	5	1
7 UNIVERSITY OF MICHIGAN	308	110	3	119	76
8 ATLANTA UNIVERSITY	284	274	0	7	3
9 CARIBBEAN CTR FOR ADV STD	256	1	0	0	255
10 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	254	75	5	136	38
TOTAL, 1ST 10 INSTS.	3,993	1,146	80	1,307	1,460
11 STANFORD UNIVERSITY	227	60	9	116	42
12 HARVARD UNIVERSITY	227	73	13	92	49
13 UNIV OF TEXAS AT AUSTIN	220	50	3	25	142
14 UNIVERSITY OF PUERTO RICO	209	2	0	2	205
15 UNIVERSITY OF ILLINOIS - URBANA	205	55	0	116	34
16 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	198	3	1	1	193
17 OHIO STATE UNIVERSITY	191	123	6	33	29
18 UNIV OF NORTH CAROLINA AT CHAPEL HILL	179	130	6	31	12
19 COLUMBIA UNIV MAIN DIVISION	179	52	1	88	38
20 CORNELL UNIVERSITY	176	68	4	60	44
TOTAL, 1ST 20 INSTS.	6,004	1,762	123	1,871	2,248
21 UNIVERSITY OF MARYLAND - COLLEGE PARK	165	82	1	50	32
22 UNIVERSITY OF WISCONSIN - MADISON	160	28	10	70	52
23 UNIVERSITY OF WASHINGTON	157	24	6	99	28
24 UNIVERSITY OF COLORADO	147	54	6	33	54
25 PURDUE UNIVERSITY	147	50	2	58	37
26 MICHIGAN STATE UNIVERSITY	145	66	6	32	41
27 UNIVERSITY OF CALIF AT DAVIS	142	20	2	82	38
28 UNIVERSITY OF PITTSBURGH	140	102	0	22	16
29 UNIVERSITY OF CALIF AT IRVINE	138	16	6	76	40
30 SUNY - STONY BROOK	137	56	1	32	48
TOTAL, 1ST 30 INSTS.	7,482	2,260	163	2,425	2,634
31 CUNY HUNTER COLLEGE	137	69	0	15	53
32 UNIVERSITY OF OKLAHOMA	133	33	35	46	19
33 GEORGIA INSTITUTE OF TECHNOLOGY	127	53	1	34	39
34 ARIZONA STATE UNIVERSITY	127	22	7	49	49
35 UNIVERSITY OF TENNESSEE AT KNOXVILLE	123	75	3	35	10
36 CUNY GRADUATE SCHOOL AND UNIV CENTER	118	55	1	25	37
37 TEMPLE UNIVERSITY	118	91	0	16	11
38 NORTH CAROLINA STATE UNIV AT RALEIGH	118	80	0	26	12
39 NEW YORK UNIVERSITY	116	42	3	34	37
40 YALE UNIVERSITY	116	37	14	43	22
TOTAL, 1ST 40 INSTS.	8,715	2,817	227	2,748	2,923

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
41 UNIVERSITY OF FLORIDA	116	55	1	12	48
42 IOWA STATE UNIVERSITY OF SCI & TECH	115	54	4	43	14
43 CUNY CITY COLLEGE	114	40	0	41	33
44 UNIVERSITY OF PENNSYLVANIA	112	24	1	61	26
45 TEXAS A & M UNIVERSITY	112	14	3	34	61
46 DE PAUL UNIVERSITY	111	53	1	51	6
47 UNIVERSITY OF MINNESOTA	109	38	14	38	19
48 UNIVERSITY OF CONNECTICUT	108	44	1	17	44
49 JOHNS HOPKINS UNIVERSITY	106	36	24	33	13
50 WAYNE STATE UNIVERSITY	103	55	3	32	13
TOTAL, 1ST 50 INSTS.	9,821	3,232	279	3,110	3,200
51 FLORIDA STATE UNIVERSITY	102	57	6	10	29
52 RUTGERS THE STATE UNIVERSITY	102	40	6	29	27
53 UNIVERSITY OF CINCINNATI	102	59	1	24	18
54 NORTHWESTERN UNIVERSITY	100	27	3	53	17
55 LOUISIANA STATE UNIVERSITY SYSTEM	97	42	1	33	21
56 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	94	24	0	47	23
57 UNIVERSITY OF MISSOURI - COLUMBIA	93	35	0	32	26
58 UNIVERSITY OF ARIZONA	92	10	13	45	24
59 CALIF STATE UNIV AT LOS ANGELES	92	21	2	39	30
60 SAN DIEGO STATE UNIVERSITY	91	8	3	38	42
TOTAL, 1ST 60 INSTS.	10,786	3,555	314	3,460	3,457
61 UNIVERSITY OF CHICAGO	90	34	5	23	28
62 UNIVERSITY OF GEORGIA	89	79	0	5	5
63 CALIF STATE UNIV AT DOMINGUEZ HILLS	89	59	4	8	18
64 BOSTON UNIVERSITY	88	39	4	24	21
65 ALABAMA A & M UNIVERSITY	88	57	2	29	0
66 PRINCETON UNIVERSITY	87	29	9	30	19
67 PENNSYLVANIA STATE UNIVERSITY	87	40	5	20	22
68 UNIVERSITY OF UTAH	85	10	18	41	16
69 UNIVERSITY OF MIAMI	84	8	1	3	72
70 NORTH TEXAS STATE UNIVERSITY	83	25	0	39	19
TOTAL, 1ST 70 INSTS.	11,656	3,935	362	3,682	3,677
71 PRAIRIE VIEW A & M UNIVERSITY	82	82	0	0	0
72 NORTHEASTERN UNIVERSITY	82	38	6	17	21
73 UNIVERSITY OF MASSACHUSETTS AT AMHERST	81	17	3	31	30
74 UNIVERSITY OF CALIF AT RIVERSIDE	78	12	3	21	42
75 RENSSELAER POLYTECHNIC INSTITUTE	77	23	0	32	22
76 CASE WESTERN RESERVE UNIVERSITY	76	41	1	23	6
77 UNIV OF TEXAS AT ARLINGTON	73	19	3	34	17
78 WASHINGTON UNIVERSITY	73	49	3	15	6
79 UNIVERSITY OF DENVER	73	27	16	10	20
80 UNIVERSITY OF WISCONSIN - MILWAUKEE	72	44	7	10	11
TOTAL, 1ST 80 INSTS.	12,423	4,287	404	3,880	3,852

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TABLE E-10. -- INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
81 UNIVERSITY OF CALIF AT SAN FRANCISCO	72	15	4	38	15
82 JACKSON STATE UNIVERSITY	71	70	0	1	0
83 SUNY - BUFFALO	69	13	2	41	13
84 UNIVERSITY OF KANSAS	66	24	8	19	15
85 MISSISSIPPI STATE UNIVERSITY	65	40	0	10	15
86 UNIVERSITY OF CALIF AT SANTA BARBARA	64	8	6	32	18
87 CATHOLIC UNIVERSITY OF AMERICA	64	22	9	17	16
88 UNIVERSITY OF IOWA	64	20	0	26	18
89 AMERICAN UNIVERSITY	64	23	3	9	29
90 UNIVERSITY OF KENTUCKY	63	31	2	21	9
TOTAL, 1ST 90 INSTS.	13,085	4,553	438	4,094	4,000
91 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	63	42	1	16	4
92 CARNEGIE-MELLON UNIVERSITY	61	52	0	4	5
93 UNIVERSITY OF SOUTH CAROLINA	61	47	0	10	4
94 SYRACUSE UNIVERSITY	61	31	3	17	10
95 TEXAS WOMAN'S UNIVERSITY	60	24	0	11	25
96 NEW MEXICO STATE UNIVERSITY	58	4	2	4	48
97 VIRGINIA COMMONWEALTH UNIVERSITY	58	48	1	6	3
98 OREGON STATE UNIVERSITY	57	8	0	32	17
99 LOMA LINDA UNIVERSITY	56	23	0	16	17
100 UNIVERSITY OF AKRON	56	12	5	17	22
TOTAL, 1ST 100 INSTS.	13,676	4,844	450	4,227	4,155
101 HAMPTON INSTITUTE	55	49	0	5	1
102 COLORADO STATE UNIVERSITY	54	8	1	20	25
103 UNIVERSITY OF HOUSTON	54	14	3	14	23
104 UNIVERSITY OF SOUTH FLORIDA	54	23	2	7	22
105 TEXAS A & I UNIVERSITY	52	7	0	17	28
106 TUSKEGEE INSTITUTE	52	50	0	1	1
107 UNIVERSITY OF LOUISVILLE	52	21	2	21	8
108 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	52	14	2	29	7
109 WASHINGTON STATE UNIVERSITY	52	11	1	25	15
110 UNIVERSITY OF CALIF AT SAN DIEGO	50	6	2	23	19
TOTAL, 1ST 110 INSTS.	14,203	5,047	463	4,389	4,304
111 TULANE UNIVERSITY OF LOUISIANA	50	22	2	7	19
112 SAN FRANCISCO STATE UNIVERSITY	50	11	5	12	22
113 BISCAYNE COLLEGE	50	28	0	1	21
114 UNIV OF TEXAS AT EL PASO	49	2	0	8	39
115 UNIVERSITY OF NEW MEXICO	49	3	5	5	36
116 SAN JOSE STATE UNIVERSITY	48	7	4	21	16
117 INDIANA UNIVERSITY, ALL CAMPUSES	48	25	3	11	9
118 GEORGE WASHINGTON UNIVERSITY	48	17	1	19	11
119 UNIVERSITY OF NEW ORLEANS	47	23	2	6	16
120 ILLINOIS INSTITUTE OF TECHNOLOGY	45	14	1	26	4
TOTAL, 1ST 120 INSTS.	14,687	5,199	486	4,505	4,497

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TABLE E-10. -- INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
121 NORTHERN ILLINOIS UNIVERSITY	45	15	1	18	11
122 SUNY - BINGHAMTON	44	8	5	14	17
123 NATIONAL UNIVERSITY	44	22	1	9	12
124 VIRGINIA POLYTECHNIC INST AND STATE UNIV	44	12	1	24	7
125 ANTIOCH UNIVERSITY	44	23	5	6	10
126 UNIVERSITY OF DETROIT	44	10	0	31	3
127 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	43	15	0	18	10
128 WESTERN MICHIGAN UNIVERSITY	42	26	4	7	5
129 ST JOHN'S UNIVERSITY	42	23	0	10	9
130 OKLAHOMA STATE UNIVERSITY	41	9	14	9	9
TOTAL, 1ST 130 INSTS.	15,120	5,362	517	4,651	4,590
131 SAM HOUSTON STATE UNIVERSITY	41	18	0	11	12
132 UNIVERSITY OF VIRGINIA	41	17	1	19	4
133 UNIVERSITY OF CALIF AT SANTA CRUZ	40	10	1	9	20
134 UNIVERSITY OF RHODE ISLAND	39	13	1	13	12
135 ST LOUIS UNIVERSITY	39	26	3	7	3
136 THE FIELDING INSTITUTE	38	15	1	5	17
137 DUKE UNIVERSITY	38	14	2	18	4
138 UNIVERSITY OF THE DISTRICT OF COLUMBIA	38	35	0	0	3
139 THE UNIVERSITY OF ALABAMA	37	28	0	8	1
140 TRINITY UNIVERSITY	36	11	0	1	24
TOTAL, 1ST 140 INSTS.	15,507	5,549	526	4,742	4,690
141 US INTERNATIONAL UNIVERSITY	36	9	0	9	18
142 WEST COAST UNIVERSITY	36	13	1	16	6
143 UNIVERSITY OF LOWELL	36	4	0	26	6
144 UNIVERSITY OF MISSISSIPPI	35	25	0	6	4
145 UNIVERSITY OF NOTRE DAME	35	7	2	9	17
146 GEORGIA STATE UNIVERSITY	35	21	1	9	4
147 CALIF STATE UNIV AT HAYWARD	34	13	2	13	6
148 KENT STATE UNIVERSITY	34	26	0	4	4
149 NORTH CAROLINA CENTRAL UNIVERSITY	33	30	2	1	0
150 UNIVERSITY OF OREGON	33	4	0	19	10
TOTAL, 1ST 150 INSTS.	15,854	5,701	534	4,854	4,765
151 UNIVERSITY OF NEBRASKA - LINCOLN	33	9	1	17	6
152 UNIVERSITY OF SOUTHERN MISSISSIPPI	33	31	0	0	2
153 CALIF SCH OF PROF PSYCH - LOS ANGELES	32	6	0	12	14
154 RICE UNIVERSITY	32	13	1	7	11
155 UNIVERSITY OF ARKANSAS	31	18	1	9	3
156 KANSAS STATE UNIV OF AGR & APPLIED SCI	31	8	1	11	11
157 SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	31	23	5	1	2
158 UNION OF EXPERIMENTNG COLLEGES & UNIVS	31	15	3	4	9
159 UNIVERSITY OF MARYLAND - BALT PROF SCH	31	18	0	11	2
160 SOUTHWEST TEXAS STATE UNIVERSITY	31	12	0	1	18
TOTAL, 1ST 160 INSTS.	16,170	5,854	546	4,927	4,843

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
161 EASTERN NEW MEXICO UNIVERSITY	29	3	1	6	19
162 BROWN UNIVERSITY	29	6	0	14	9
163 BOWLING GREEN STATE UNIVERSITY	29	19	0	4	6
164 MEHARRY MEDICAL COLLEGE	28	27	1	0	0
165 LOYOLA UNIVERSITY OF CHICAGO	28	11	1	9	7
166 MEMPHIS STATE UNIVERSITY	28	17	0	6	5
167 UNIVERSITY OF SAN FRANCISCO	28	4	2	14	8
168 PORTLAND STATE UNIVERSITY	28	11	3	9	5
169 UNIVERSITY OF CENTRAL FLORIDA	28	8	0	6	14
170 WEST VIRGINIA UNIVERSITY	28	10	6	10	2
TOTAL, 1ST 170 INSTS.	16,453	5,970	560	5,005	4,918
171 UNIVERSITY OF ROCHESTER	28	12	0	12	4
172 NORTH CAROLINA A & T STATE UNIVERSITY	28	28	0	0	0
173 MIAMI UNIVERSITY	27	10	8	5	4
174 BRIGHAM YOUNG UNIVERSITY	26	0	7	13	6
175 SUNY - ALBANY	26	10	2	3	11
176 PEPPERDINE UNIVERSITY	26	11	0	6	9
177 EMORY UNIVERSITY	26	19	1	4	2
178 FLORIDA INSTITUTE OF TECHNOLOGY	26	14	1	5	6
179 TENNESSEE STATE UNIVERSITY	26	23	1	2	0
180 UNIV OF ILLINOIS MED CENTER - CHICAGO	25	6	0	18	1
TOTAL, 1ST 180 INSTS.	16,717	6,103	580	5,073	4,961
181 VIRGINIA STATE UNIVERSITY	25	21	1	3	0
182 LONG ISLAND UNIVERSITY	24	18	0	5	1
183 WRIGHT STATE UNIVERSITY	24	17	0	5	2
184 LOYOLA MARYMOUNT UNIVERSITY	23	10	1	6	6
185 OLD DOMINION UNIVERSITY	23	14	1	6	2
186 UNIV OF NORTH CAROLINA AT GREENSBORO	23	17	3	0	3
187 CALIF SCH OF PROF PSYCH - SAN DIEGO	22	5	1	4	12
188 FISK UNIVERSITY	22	22	0	0	0
189 FULLER THEOLOGICAL SEMINARY	22	7	0	12	3
190 ADELPHI UNIVERSITY	22	10	1	4	7
TOTAL, 1ST 190 INSTS.	16,947	6,244	588	5,118	4,997
191 UNIV OF MED AND DENT OF NEW JERSEY	22	5	4	11	2
192 FAIRLEIGH DICKINSON UNIVERSITY	22	8	0	7	7
193 SEATTLE UNIVERSITY	21	10	1	10	0
194 UNIV OF TEXAS AT DALLAS	21	8	2	2	9
195 NORTHERN ARIZONA UNIVERSITY	21	2	7	1	11
196 JOHN F KENNEDY UNIVERSITY	20	7	0	3	10
197 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	20	11	1	3	5
198 UNIVERSITY OF SOUTHWESTERN LOUISIANA	20	15	0	2	3
199 UNIVERSITY OF MONTANA	20	3	5	11	1
200 PACE UNIVERSITY	20	8	2	5	5
TOTAL, 1ST 200 INSTS.	17,154	6,321	610	5,173	5,050

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TABLE E-10. -- INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
201 BRANDEIS UNIVERSITY	20	5	1	5	9
202 SANGAMON STATE UNIVERSITY	20	5	4	4	7
203 UNIVERSITY OF WISCONSIN - STOUT	19	8	4	4	3
204 GOVERNORS STATE UNIVERSITY	19	16	1	0	2
205 GEORGETOWN UNIVERSITY	19	6	0	8	5
206 THE WRIGHT INSTITUTE	19	7	0	3	9
207 HOFSTRA UNIVERSITY	19	12	0	0	7
208 DREXEL UNIVERSITY	19	4	4	9	2
209 TUFTS UNIVERSITY	19	4	2	9	4
210 FORDHAM UNIVERSITY	19	4	0	2	13
TOTAL, 1ST 210 INSTS.	17,346	6,392	626	5,217	5,111
211 VANDERBILT UNIVERSITY	19	12	0	5	2
212 CALIF SCH OF PROF PSYCH - FRESNO	18	7	0	3	8
213 SOUTHERN METHODIST UNIVERSITY	18	3	0	12	3
214 OHIO UNIVERSITY	18	7	0	5	6
215 EASTERN MICHIGAN UNIVERSITY	18	12	0	4	2
216 POLYTECHNIC INSTITUTE OF NEW YORK	18	1	1	13	3
217 MORGAN STATE UNIVERSITY	17	17	0	0	0
218 CALIF SCH OF PROF PSYCH - BERKELEY	17	4	0	8	5
219 AUBURN UNIVERSITY	17	13	0	2	2
220 CALIF STATE UNIVERSITY AT NORTHRIDGE	17	3	0	10	4
TOTAL, 1ST 220 INSTS.	17,523	6,471	627	5,279	5,146
221 EAST CAROLINA UNIVERSITY	17	11	1	3	2
222 CLEMSON UNIVERSITY	17	13	0	2	2
223 MANHATTAN COLLEGE	17	1	0	9	7
224 EAST TEXAS STATE UNIVERSITY	17	10	0	4	3
225 NEW YORK INSTITUTE OF TECHNOLOGY	17	11	0	5	1
226 UTAH STATE UNIVERSITY	16	1	2	3	10
227 SOUTHERN UNIVERSITY A & M COLLEGE	16	16	0	0	0
228 FLORIDA ATLANTIC UNIVERSITY	16	6	0	7	3
229 CUNY QUEENS COLLEGE	16	7	0	6	3
230 WESTERN ILLINOIS UNIVERSITY	16	4	0	7	5
TOTAL, 1ST 230 INSTS.	17,688	6,551	630	5,325	5,182
231 BIOLA UNIVERSITY	16	9	0	2	5
232 UNIVERSITY OF NEBRASKA - OMAHA	16	12	2	0	2
233 CALIF STATE UNIV AT FULLERTON	15	1	4	3	7
234 UNIVERSITY OF DAYTON	15	8	0	5	2
235 UNIVERSITY OF NEVADA AT RENO	15	2	1	9	3
236 VALDOSTA STATE COLLEGE	15	15	0	0	0
237 EASTERN WASHINGTON UNIVERSITY	15	3	3	4	5
238 TEXAS TECH UNIVERSITY	15	4	0	1	10
239 TEXAS SOUTHERN UNIVERSITY	15	8	2	1	4
240 EAST TENNESSEE STATE UNIVERSITY	15	15	0	0	0
TOTAL, 1ST 240 INSTS.	17,840	6,628	642	5,350	5,220

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
241 MEDICAL COLLEGE OF GEORGIA	14	10	0	3	1
242 LAMAR UNIVERSITY	14	7	3	1	3
243 GEORGE WILLIAMS COLLEGE	14	11	0	1	2
244 UNIVERSITY OF BALTIMORE	14	13	0	0	1
245 ILLINOIS STATE UNIVERSITY	14	11	0	0	3
246 NEW JERSEY INSTITUTE OF TECHNOLOGY	14	4	4	1	5
247 UNIVERSITY OF MISSOURI - KANSAS CITY	14	6	4	3	1
248 UNIVERSITY OF TOLEDO	14	6	0	5	3
249 STEPHEN F. AUSTIN STATE UNIVERSITY	13	3	0	7	3
250 CALIF STATE UNIVERSITY AT SACRAMENTO	13	3	0	6	4
TOTAL, 1ST 250 INSTS.	17,978	6,702	653	5,377	5,246
251 AMERICAN TECHNOLOGICAL UNIVERSITY	13	10	1	0	2
252 CALIF STATE UNIVERSITY AT FRESNO	13	2	2	4	5
253 FORT HAYS STATE UNIVERSITY	13	0	0	0	13
254 GRAMBLING STATE UNIVERSITY	13	13	0	0	0
255 BOSTON COLLEGE	13	5	0	4	4
256 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	12	2	0	6	4
257 MAHNEMANN UNIVERSITY	12	8	0	2	2
258 MONTEREY INST OF INTL STUDIES	12	5	0	3	4
259 SOUTHERN CONNECTICUT STATE COLLEGE	12	9	0	1	2
260 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	11	10	0	1	0
TOTAL, 1ST 260 INSTS.	18,102	6,766	656	5,398	5,282
261 NOVA UNIVERSITY	11	2	0	0	9
262 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	11	6	0	1	4
263 LEHIGH UNIVERSITY	11	2	0	6	3
264 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	11	5	0	5	1
265 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	11	3	0	6	2
266 COLORADO SCHOOL OF MINES	11	3	1	6	1
267 ALABAMA STATE UNIVERSITY	11	11	0	0	0
268 SUNY - COLL OF ENV SCIENCE AND FORESTRY	11	1	1	4	5
269 NORTHWESTERN STATE UNIV OF LOUISIANA	11	11	0	0	0
270 INDIANA UNIVERSITY OF PENNSYLVANIA	11	10	0	0	1
TOTAL, 1ST 270 INSTS.	18,212	6,820	658	5,426	5,308
271 MIDDLE TENNESSEE STATE UNIVERSITY	11	8	0	2	1
272 UNIVERSITY OF ALASKA AT FAIRBANKS	11	1	1	8	1
273 TOWSON STATE UNIVERSITY	10	8	0	1	1
274 CALIF POLY STATE UNIV AT SAN LUIS OBISPO	10	0	2	7	1
275 NEW MEXICO HIGHLANDS UNIVERSITY	10	6	0	1	3
276 UNIVERSITY OF SOUTH ALABAMA	10	8	0	1	1
277 NEW SCHOOL FOR SOCIAL RESEARCH	10	5	1	1	3
278 JACKSONVILLE STATE UNIVERSITY	10	7	1	1	1
279 GEORGIA SOUTHERN COLLEGE	10	7	1	0	2
280 SMITH COLLEGE	10	4	0	3	3
TOTAL, 1ST 280 INSTS.	18,314	6,874	664	5,451	5,325

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
281 UNIVERSITY OF TEXAS AT SAN ANTONIO	10	2	0	0	8
282 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	10	4	0	4	2
283 CALIF STATE COLLEGE AT SAN BERNARDINO	10	8	1	0	1
284 UNIVERSITY OF HARTFORD	9	0	1	2	6
285 CLEVELAND STATE UNIVERSITY	9	6	0	2	1
286 UNIV OF TEXAS MED BRANCH AT GALVESTON	9	2	0	5	2
287 ST MARY'S UNIVERSITY OF SAN ANTONIO	9	5	1	1	2
288 WEST VIRGINIA COLLEGE OF GRAD STUDIES	9	3	0	6	0
289 GEORGE MASON UNIVERSITY	9	2	1	6	0
290 UNIVERSITY OF WYOMING	9	3	1	3	2
TOTAL, 1ST 290 INSTS.	18,407	6,909	669	5,480	5,349
291 UNIVERSITY OF NEW HAVEN	9	5	1	2	1
292 TEXAS CHRISTIAN UNIVERSITY	9	2	0	3	4
293 ARKANSAS STATE UNIVERSITY	9	4	2	1	0
294 UNIVERSITY OF CENTRAL ARKANSAS	9	9	0	0	0
295 MCNEESE STATE UNIVERSITY	8	6	0	2	0
296 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	8	3	0	1	4
297 UNIV OF MASSACHUSETTS-BOSTON	8	0	0	8	0
298 MEDICAL UNIVERSITY OF SOUTH CAROLINA	8	1	1	6	0
299 BARRY COLLEGE	8	8	0	0	0
300 INDIANA STATE UNIVERSITY	8	6	0	1	1
TOTAL, 1ST 300 INSTS.	18,491	6,955	673	5,504	5,359
301 YESHIVA UNIVERSITY	8	1	1	4	2
302 SUL ROSS STATE UNIVERSITY	8	6	0	0	2
303 WICHITA STATE UNIVERSITY	8	6	0	0	2
304 CENTRAL MISSOURI STATE UNIVERSITY	8	6	0	1	1
305 WESTERN OREGON STATE COLLEGE	8	2	2	3	1
306 CALIF STATE UNIVERSITY AT CHICO	8	0	0	0	8
307 MONTANA STATE UNIVERSITY	8	2	1	4	1
308 NORTHEAST LOUISIANA UNIVERSITY	8	4	2	2	0
309 ROCHESTER INSTITUTE OF TECHNOLOGY	8	6	0	2	0
310 AMERICAN INTERNATIONAL COLLEGE	8	8	0	0	0
TOTAL, 1ST 310 INSTS.	18,571	6,996	679	5,520	5,376
311 CALIF STATE COLLEGE OF STANISLAUS	8	4	0	1	3
312 PITTSBURG STATE UNIVERSITY	8	5	0	0	3
313 CENTRAL MICHIGAN UNIVERSITY	7	5	1	1	0
314 MANKATO STATE UNIVERSITY	7	3	3	1	0
315 UNIVERSITY OF SOUTH DAKOTA	7	2	3	1	1
316 BRYN MAWR COLLEGE	7	0	0	5	2
317 RUSH UNIVERSITY	7	4	0	1	2
318 UNIV OF NORTH CAROLINA AT CHARLOTTE	7	7	0	0	0
319 AZUSA PACIFIC UNIVERSITY	7	2	0	2	3
320 SHIPPENSBURG STATE COLLEGE	7	0	0	5	2
TOTAL, 1ST 320 INSTS.	18,643	7,028	686	5,537	5,392

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
321 OAKLAND UNIVERSITY	7	5	0	2	0
322 PACIFIC LUTHERAN UNIVERSITY	7	3	1	1	2
323 MARQUETTE UNIVERSITY	7	2	0	2	3
324 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	7	6	0	1	0
325 CLARK UNIVERSITY	7	3	1	1	2
326 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	6	3	1	0	2
327 UNIVERSITY OF WEST FLORIDA	6	5	0	0	1
328 UNIVERSITY OF MISSOURI - ROLLA	6	1	1	1	3
329 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	6	4	1	0	1
330 SUNY - DOWNSTATE MEDICAL CENTER	6	0	0	2	4
TOTAL, 1ST 330 INSTS.	18,708	7,060	691	5,547	5,410
331 ANDREWS UNIVERSITY	6	3	0	1	2
332 WEST CHESTER UNIVERSITY	6	2	0	4	0
333 SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	6	2	2	1	1
334 DARTMOUTH COLLEGE	6	2	0	2	2
335 UNIVERSITY OF IDAHO	6	0	0	5	1
336 MARYWOOD COLLEGE	6	5	1	0	0
337 NORTH DAKOTA STATE UNIVERSITY	6	2	0	3	1
338 NORTHEAST MISSOURI STATE UNIVERSITY	5	1	0	3	1
339 UNIV OF ALASKA AT ANCHORAGE	5	2	0	2	1
340 UNIVERSITY OF MISSOURI - ST LOUIS	5	4	0	1	0
TOTAL, 1ST 340 INSTS.	18,765	7,083	694	5,569	5,419
341 BAYLOR COLLEGE OF MEDICINE	5	0	0	2	3
342 LOYOLA COLLEGE	5	3	0	0	2
343 MILLIAM PATERSON COLLEGE	5	3	0	2	0
344 NORTHWEST MISSOURI STATE UNIVERSITY	5	4	0	1	0
345 GOLDEN GATE UNIVERSITY	5	2	0	2	1
346 INSTITUTE OF PAPER CHEMISTRY	5	2	0	3	0
347 SOUTH DAKOTA STATE UNIVERSITY	5	1	0	2	2
348 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	5	2	0	1	2
349 UNIVERSITY OF NORTHERN IOWA	5	4	1	0	0
350 XAVIER UNIVERSITY	5	4	0	1	0
TOTAL, 1ST 350 INSTS.	18,815	7,108	695	5,583	5,429
351 RAND GRADUATE INSTITUTE POLICY STUDIES	4	1	0	1	2
352 COLLEGE OF MILLIAM AND MARY	4	3	0	1	0
353 MURRAY STATE UNIVERSITY	4	1	0	3	0
354 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	4	4	0	0	0
355 RUSSELL SAGE COLLEGE	4	2	0	0	2
356 UNIVERSITY OF NORTH DAKOTA	4	1	2	1	0
357 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	4	0	0	4	0
358 EASTERN KENTUCKY UNIVERSITY	4	2	1	1	0
359 UNIVERSITY OF TULSA	4	1	1	1	1
360 UNIVERSITY OF NEVADA AT LAS VEGAS	4	1	0	2	1
TOTAL, 1ST 360 INSTS.	18,855	7,124	699	5,597	5,435

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
361 ALBANY MEDICAL COLLEGE	4	0	0	4	0
362 COLUMBIA UNIV TEACHERS COLLEGE	4	1	0	1	2
363 TENNESSEE TECHNOLOGICAL UNIVERSITY	4	4	0	0	0
364 CREIGHTON UNIVERSITY	4	0	0	2	2
365 STEVENS INSTITUTE OF TECHNOLOGY	4	1	1	2	0
366 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	4	0	1	1	2
367 COPPIN STATE COLLEGE	4	4	0	0	0
368 WESTERN WASHINGTON UNIVERSITY	4	0	0	3	1
369 THOMAS JEFFERSON UNIVERSITY	4	2	0	0	2
370 BAYLOR UNIVERSITY	4	0	0	1	3
TOTAL, 1ST 370 INSTS.	18,895	7,136	701	5,611	5,447
371 COOPER UNION	4	0	0	4	0
372 SARAH LAWRENCE COLLEGE	4	2	0	0	2
373 US NAVAL POSTGRADUATE SCHOOL	4	0	0	1	3
374 SUFFOLK UNIVERSITY	4	3	0	0	1
375 UNIVERSITY OF SCRANTON	4	3	1	0	0
376 CLARKSON COLLEGE OF TECHNOLOGY	4	1	0	1	2
377 UNION COLLEGE(NY)	3	1	2	0	0
378 NEW YORK MEDICAL COLLEGE	3	1	0	2	0
379 UNIVERSITY OF NEBRASKA MEDICAL CENTER	3	1	0	1	1
380 NORTHEASTERN ILLINOIS UNIVERSITY	3	1	0	1	1
TOTAL, 1ST 380 INSTS.	18,931	7,149	704	5,621	5,457
381 COLLEGE OF NEW ROCHELLE	3	3	0	0	0
382 OREGON HEALTH SCIENCES UNIVERSITY	3	0	0	3	0
383 IDAHO STATE UNIVERSITY	3	0	1	2	0
384 CHAPMAN COLLEGE	3	0	1	2	0
385 CHICAGO STATE UNIVERSITY	3	3	0	0	0
386 EMPORIA STATE UNIVERSITY - KANSAS	3	2	1	0	0
387 SUNY COLLEGE AT BUFFALO	3	1	0	1	1
388 UNIVERSITY OF WISCONSIN - STEVENS POINT	3	1	0	1	1
389 COLLEGE OF CHARLESTON	3	3	0	0	0
390 FROSTBURG STATE COLLEGE	3	1	0	2	0
TOTAL, 1ST 390 INSTS.	18,961	7,163	707	5,632	5,459
391 FLORIDA A & M UNIVERSITY	3	1	1	1	0
392 EASTERN ILLINOIS UNIVERSITY	3	3	0	0	0
393 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	3	1	2	0	0
394 UNIVERSITY OF WISCONSIN - OSHKOSH	3	2	0	1	0
395 CORPUS CHRISTI STATE UNIVERSITY	3	0	0	0	3
396 WOODS HOLE OCEANOGRAPHIC INSTITUTION	3	0	0	3	0
397 CENTRAL WASHINGTON UNIVERSITY	3	0	0	1	2
398 WOOD COLLEGE	3	1	0	0	2
399 INCARNATE WORD COLLEGE	3	0	0	0	3
400 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	3	1	0	2	0
TOTAL, 1ST 400 INSTS.	18,991	7,172	710	5,640	5,469

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
401 RHODE ISLAND COLLEGE	2	1	0	0	1
402 DRAKE UNIVERSITY	2	1	0	1	0
403 KEAN COLLEGE OF NEW JERSEY	2	2	0	0	0
404 MILLERSVILLE STATE COLLEGE	2	1	0	0	1
405 CALIFORNIA STATE COLLEGE AT BAKERSFIELD	2	0	2	0	0
406 ALFRED UNIVERSITY	2	0	0	0	2
407 NEW MEXICO INSTITUTE OF MINING AND TECH	2	0	1	0	1
408 WINTHROP COLLEGE	2	2	0	0	0
409 SOUTH DAKOTA SCHOOL OF MINES AND TECH	2	0	0	1	1
410 EDINBORO UNIVERSITY	2	2	0	0	0
TOTAL, 1ST 410 INSTS.	19,011	7,181	713	5,642	5,475
411 UNIVERSITY OF MAINE AT ORONO	2	0	1	0	1
412 UNIVERSITY OF HEALTH SCIENCES	2	2	0	0	0
413 UNIVERSITY OF PORTLAND	2	1	0	0	1
414 UNIVERSITY OF WISCONSIN - PLATTEVILLE	2	2	0	0	0
415 CALIFORNIA LUTHERAN COLLEGE	2	0	0	0	2
416 UNIVERSITY OF DELAWARE	2	2	0	0	0
417 MISSISSIPPI UNIVERSITY FOR WOMEN	2	2	0	0	0
418 MONTCLAIR STATE COLLEGE	2	0	1	0	1
419 SUNY COLLEGE AT FREDONIA	2	1	0	1	0
420 SUNY COLLEGE AT OSWEGO	2	0	0	0	2
TOTAL, 1ST 420 INSTS.	19,031	7,191	715	5,643	5,482
421 THE HARTFORD GRADUATE CENTER	2	0	0	1	1
422 ST MARY'S COLLEGE	2	0	1	0	1
423 ABILENE CHRISTIAN UNIVERSITY	2	0	0	1	1
424 WESTERN KENTUCKY UNIVERSITY	2	1	0	0	1
425 WESLEYAN UNIVERSITY	2	1	1	0	0
426 UNIVERSITY OF REDLANDS	2	0	1	0	1
427 UNIVERSITY OF SAN DIEGO	2	1	0	0	1
428 MIDWESTERN STATE UNIVERSITY	2	1	0	0	1
429 SONOMA STATE UNIVERSITY	2	0	0	1	1
430 PAN AMERICAN UNIVERSITY	2	0	0	1	1
TOTAL, 1ST 430 INSTS.	19,051	7,195	718	5,647	5,491
431 ROCKEFELLER UNIVERSITY	2	0	0	2	0
432 UNIVERSITY OF BRIDGEPORT	2	0	0	1	1
433 DUQUESNE UNIVERSITY	2	2	0	0	0
434 WESTERN CAROLINA UNIVERSITY	2	2	0	0	0
435 AUSTIN PEAY STATE UNIVERSITY	2	2	0	0	0
436 WAKE FOREST UNIVERSITY	2	1	0	0	1
437 BRADLEY UNIVERSITY	2	1	0	1	0
438 UNIVERSITY OF PUGET SOUND	2	0	0	2	0
439 ROOSEVELT UNIVERSITY	2	1	0	0	1
440 FLORIDA INTERNATIONAL UNIVERSITY	2	0	0	1	1
TOTAL, 1ST 440 INSTS.	19,071	7,204	718	5,654	5,495

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
441 WALLA WALLA COLLEGE	2	0	0	0	2
442 ANGELO STATE UNIVERSITY	1	0	0	0	1
443 UNIVERSITY OF EVANSVILLE	1	1	0	0	0
444 THE MEDICAL COLLEGE OF PENNSYLVANIA	1	1	0	0	0
445 VILLANOVA UNIVERSITY	1	0	0	0	1
446 INDIANA CENTRAL UNIVERSITY	1	0	0	0	1
447 KUTZTOWN STATE COLLEGE	1	0	0	1	0
448 SAINT FRANCIS COLLEGE	1	0	0	0	1
449 CALIFORNIA STATE COLLEGE	1	1	0	0	0
450 GEORGIA COLLEGE	1	0	1	0	0
TOTAL, 1ST 450 INSTS.	19,082	7,207	719	5,655	5,501
451 WEST GEORGIA COLLEGE	1	1	0	0	0
452 SPALDING COLLEGE	1	1	0	0	0
453 EAST CENTRAL OKLAHOMA STATE UNIV	1	1	0	0	0
454 PHILADELPHIA COLL OF PHARMACY AND SCI	1	0	0	1	0
455 QUINNIPIAC COLLEGE	1	0	1	0	0
456 WAGNER COLLEGE	1	0	0	0	1
457 GODDARD COLLEGE	1	1	0	0	0
458 EAST STROUDSBURG STATE COLLEGE	1	0	0	0	1
459 SUNY COLLEGE AT NEW PALTZ	1	1	0	0	0
460 SUNY COLLEGE AT CORTLAND	1	0	0	1	0
TOTAL, 1ST 460 INSTS.	19,092	7,212	720	5,657	5,503
461 MOLLINS COLLEGE	1	1	0	0	0
462 PRATT INSTITUTE	1	0	0	1	0
463 BUCKNELL UNIVERSITY	1	0	1	0	0
464 WIDENER UNIVERSITY	1	0	1	0	0
465 DOMINICAN COLLEGE OF SAN RAFAEL	1	1	0	0	0
466 RADFORD UNIVERSITY	1	1	0	0	0
467 NORTHROP UNIVERSITY	1	0	0	1	0
468 ADAMS STATE UNIVERSITY	1	0	1	0	0
469 GALLAUDET COLLEGE	1	0	0	0	1
470 EMERSON COLLEGE	1	0	0	0	1
TOTAL, 1ST 470 INSTS.	19,102	7,215	723	5,659	5,505
471 UNIVERSITY OF MONTEVALLO	1	0	0	1	0
472 YOUNGSTOWN STATE UNIVERSITY	1	1	0	0	0
473 MISSISSIPPI COLLEGE	1	0	1	0	0
474 APPALACHIAN STATE UNIVERSITY	1	1	0	0	0
475 NIAGARA UNIVERSITY	1	0	0	0	1
476 CATHOLIC UNIVERSITY OF PUERTO RICO	1	0	0	1	0
477 CUNY LEHMAN COLLEGE	1	0	0	1	0
478 MEDICAL COLLEGE OF WISCONSIN	1	0	0	1	0
479 UNIVERSITY OF TEXAS AT TYLER	1	1	0	0	0
480 UNIVERSITY OF WISCONSIN - EAU CLAIRE	1	0	0	0	1
TOTAL, 1ST 480 INSTS.	19,112	7,218	724	5,663	5,507

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TABLE E-10. -- INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

-CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
481 EASTERN VIRGINIA MEDICAL SCHOOL	1	1	0	0	0
482 WEST TEXAS STATE UNIVERSITY	0	0	0	0	0
483 MIDDLEBURY COLLEGE	0	0	0	0	0
484 INSTITUTE OF TEXTILE TECHNOLOGY	0	0	0	0	0
485 MARSHALL UNIVERSITY	0	0	0	0	0
486 WHITWORTH COLLEGE	0	0	0	0	0
487 UNIVERSITY OF RICHMOND	0	0	0	0	0
488 LYNCHBURG COLLEGE	0	0	0	0	0
489 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	0	0	0	0	0
490 PROVIDENCE COLLEGE	0	0	0	0	0
TOTAL, 1ST 490 INSTS.	19,113	7,219	724	5,663	5,507
491 TARLETON STATE UNIVERSITY	0	0	0	0	0
492 UNIVERSITY OF WISCONSIN - LA CROSSE	0	0	0	0	0
493 MILWAUKEE SCHOOL OF ENGINEERING	0	0	0	0	0
494 UNIVERSITY OF WISCONSIN - RIVER FALLS	0	0	0	0	0
495 SWARTHMORE COLLEGE	0	0	0	0	0
496 UNIVERSITY OF WISCONSIN - WHITEWATER	0	0	0	0	0
497 ST JOSEPH'S UNIVERSITY	0	0	0	0	0
498 JAMES MADISON UNIVERSITY	0	0	0	0	0
499 FURMAN UNIVERSITY	0	0	0	0	0
500 SLIPPERY ROCK STATE COLLEGE	0	0	0	0	0
TOTAL, 1ST 500 INSTS.	19,113	7,219	724	5,663	5,507
501 CITADEL MILITARY COLL OF SOUTH CAROLINA	0	0	0	0	0
502 CHEYNEY STATE COLLEGE	0	0	0	0	0
503 UNIVERSITY OF WISCONSIN - GREEN BAY	0	0	0	0	0
504 GANNON COLLEGE	0	0	0	0	0
505 SOUTHERN OREGON STATE COLLEGE	0	0	0	0	0
506 ORAL ROBERTS UNIVERSITY	0	0	0	0	0
507 PACIFIC UNIVERSITY	0	0	0	0	0
508 JOHN CARROLL UNIVERSITY	0	0	0	0	0
509 CUNY COLLEGE OF STATEN ISLAND ST GEORGE	0	0	0	0	0
510 WILKES COLLEGE	0	0	0	0	0
TOTAL, 1ST 510 INSTS.	19,113	7,219	724	5,663	5,507
511 AIR FORCE INSTITUTE OF TECHNOLOGY	0	0	0	0	0
512 BAYLOR COLLEGE OF DENTISTRY	0	0	0	0	0
513 VASSAR COLLEGE	0	0	0	0	0
514 SUNY COLLEGE AT POTSDAM	0	0	0	0	0
515 SUNY COLLEGE AT PLATTSBURGH	0	0	0	0	0
516 WORLD UNIVERSITY	0	0	0	0	0
517 SUNY COLLEGE AT ONEONTA	0	0	0	0	0
518 SUNY COLLEGE AT GENESEO	0	0	0	0	0
519 SUNY COLLEGE AT BROCKPORT	0	0	0	0	0
520 SUNY - UPSTATE MEDICAL CENTER	0	0	0	0	0
TOTAL, 1ST 520 INSTS.	19,113	7,219	724	5,663	5,507

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
521 UNIVERSITY OF GUAM	0	0	0	0	0
522 CUNY MOUNT SINAI SCHOOL OF MEDICINE	0	0	0	0	0
523 ST BONAVENTURE UNIVERSITY	0	0	0	0	0
524 MEDICAL COLLEGE OF OHIO AT TOLEDO	0	0	0	0	0
525 MOREHOUSE COLLEGE	0	0	0	0	0
526 MANSFIELD STATE COLLEGE	0	0	0	0	0
527 MARIST COLLEGE	0	0	0	0	0
528 ITHACA COLLEGE	0	0	0	0	0
529 IONA COLLEGE	0	0	0	0	0
530 COLLEGE OF ST ROSE	0	0	0	0	0
TOTAL, 1ST 530 INSTS.	19,113	7,219	724	5,663	5,507
531 BLOOMSBURG STATE COLLEGE	0	0	0	0	0
532 CUNY BROOKLYN COLLEGE	0	0	0	0	0
533 TRENTON STATE COLLEGE	0	0	0	0	0
534 SETON HALL UNIVERSITY	0	0	0	0	0
535 MONMOUTH COLLEGE(NJ)	0	0	0	0	0
536 DREW UNIVERSITY	0	0	0	0	0
537 UNIVERSITY OF NEW HAMPSHIRE	0	0	0	0	0
538 RIVIER COLLEGE	0	0	0	0	0
539 KEARNEY STATE COLLEGE	0	0	0	0	0
540 MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	0	0	0	0
TOTAL, 1ST 540 INSTS.	19,113	7,219	724	5,663	5,507
541 SOUTHWEST MISSOURI STATE UNIVERSITY	0	0	0	0	0
542 SOUTHEAST MISSOURI STATE UNIVERSITY	0	0	0	0	0
543 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	0	0	0	0	0
544 CUNY BERNARD BARUCH COLLEGE	0	0	0	0	0
545 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0	0
546 MOORHEAD STATE UNIVERSITY	0	0	0	0	0
547 BEMIDJI STATE UNIVERSITY	0	0	0	0	0
548 NORTHERN MICHIGAN UNIVERSITY	0	0	0	0	0
549 MICHIGAN TECHNOLOGICAL UNIVERSITY	0	0	0	0	0
550 WORCESTER POLYTECHNIC INSTITUTE	0	0	0	0	0
TOTAL, 1ST 550 INSTS.	19,113	7,219	724	5,663	5,507
551 WILLIAMS COLLEGE	0	0	0	0	0
552 WESTERN NEW ENGLAND COL	0	0	0	0	0
553 MOUNT HOLYOKE COLLEGE	0	0	0	0	0
554 WORCESTER STATE COLLEGE	0	0	0	0	0
555 SALEM STATE COLLEGE	0	0	0	0	0
556 FRAMINGHAM STATE COLLEGE	0	0	0	0	0
557 BRIDGEWATER STATE COLLEGE	0	0	0	0	0
558 ASSUMPTION COLLEGE	0	0	0	0	0
559 ANNA MARIA COLLEGE	0	0	0	0	0
560 WASHINGTON COLLEGE	0	0	0	0	0
TOTAL, 1ST 560 INSTS.	19,113	7,219	724	5,663	5,507

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
561 SOUTHEASTERN LOUISIANA UNIVERSITY	0	0	0	0	0
562 LOYOLA UNIVERSITY IN NEW ORLEANS	0	0	0	0	0
563 LOUISIANA TECH UNIVERSITY	0	0	0	0	0
564 NICHOLLS STATE UNIVERSITY	0	0	0	0	0
565 MOREHEAD STATE UNIVERSITY	0	0	0	0	0
566 OREGON GRADUATE CENTER	0	0	0	0	0
567 WASHBURN UNIV OF TOPEKA	0	0	0	0	0
568 LORAS COLLEGE	0	0	0	0	0
569 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0	0
570 CLARION STATE COLLEGE	0	0	0	0	0
TOTAL, 1ST 570 INSTS.	19,113	7,219	724	5,663	5,507
571 VALPARAISO UNIVERSITY	0	0	0	0	0
572 ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	0	0	0	0
573 DE PAUW UNIVERSITY	0	0	0	0	0
574 BUTLER UNIVERSITY	0	0	0	0	0
575 BALL STATE UNIVERSITY	0	0	0	0	0
576 SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	0	0	0	0
577 CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0	0
578 AUGUSTA COLLEGE	0	0	0	0	0
579 ARMSTRONG STATE COLLEGE	0	0	0	0	0
580 STETSON UNIVERSITY	0	0	0	0	0
TOTAL, 1ST 580 INSTS.	19,113	7,219	724	5,663	5,507
581 ROLLINS COLLEGE	0	0	0	0	0
582 SUNY STATE COLLEGE OF OPTOMETRY	0	0	0	0	0
583 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	0	0	0	0	0
584 JACKSONVILLE UNIVERSITY	0	0	0	0	0
585 TRINITY COLLEGE	0	0	0	0	0
586 CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	0	0	0	0
587 ST JOSEPH COLLEGE	0	0	0	0	0
588 WESTERN CONNECTICUT STATE UNIVERSITY	0	0	0	0	0
589 MIDWEST COLLEGE OF ENGINEERING	0	0	0	0	0
590 CONNECTICUT COLLEGE	0	0	0	0	0
TOTAL, 1ST 590 INSTS.	19,113	7,219	724	5,663	5,507
591 CENTRAL CONNECTICUT STATE UNIVERSITY	0	0	0	0	0
592 WESTERN STATE COLLEGE OF COLORADO	0	0	0	0	0
593 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0	0
594 UNIVERSITY OF NORTHERN COLORADO	0	0	0	0	0
595 WHITTIER COLLEGE	0	0	0	0	0
596 UNIVERSITY OF THE PACIFIC	0	0	0	0	0
597 UNIVERSITY OF SANTA CLARA	0	0	0	0	0
598 PACIFIC STATES UNIVERSITY	0	0	0	0	0
599 OCCIDENTAL COLLEGE	0	0	0	0	0
600 UNIVERSITY OF LA VERNE	0	0	0	0	0
TOTAL, 1ST 600 INSTS.	19,113	7,219	724	5,663	5,507

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TABLE E-10. — INSTITUTIONS RANKED BY MINORITY FULL-TIME SCIENCE/ENGINEERING GRADUATE ENROLLMENT: 1982

—CONTINUED

INSTITUTIONAL RANKING	TOTAL MINORITY	BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN	ASIAN/ PACIFIC ISLANDER	HISPANIC
601 MEED UNIVERSITY	0	0	0	0	0
602 HARVEY MUDD COLLEGE	0	0	0	0	0
603 HUMBOLDT STATE UNIVERSITY	0	0	0	0	0
604 CALIF STATE POLYTECHNIC UNIV AT POMONA	0	0	0	0	0
605 CALIF STATE UNIV AT LONG BEACH	0	0	0	0	0
606 NE OHIO UNIV MED SCHOOL	0	0	0	0	0
607 CALIFORNIA INSTITUTE OF TECHNOLOGY	0	0	0	0	0
608 HENDERSON STATE UNIVERSITY	0	0	0	0	0
609 TROY STATE UNIVERSITY AT MONTGOMERY	0	0	0	0	0
610 SAMFORD UNIVERSITY	0	0	0	0	0
TOTAL, 1ST 610 INSTS.	19,113	7,219	724	5,663	5,507
611 UNIV OF ALASKA SOUTHEAST	0	0	0	0	0
612 UNIVERSITY OF NORTH ALABAMA	0	0	0	0	0
613 UNIVERSITY OF HEALTH SCIENCES	0	0	0	0	0
614 ST CLOUD STATE UNIVERSITY	0	0	0	0	0
TOTAL, 1ST 614 INSTS.	19,113	7,219	724	5,663	5,507

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
TOTAL, ALL INSTITUTIONS	19,772	399,682	255,959	143,723
1 HARVARD UNIVERSITY	1,294	3,071	2,962	109
2 YALE UNIVERSITY	577	1,686	1,638	48
3 UNIVERSITY OF CALIF AT SAN FRANCISCO	549	931	917	14
4 STANFORD UNIVERSITY	502	4,026	3,598	428
5 UNIVERSITY OF WASHINGTON	469	3,899	2,818	1,081
6 UNIVERSITY OF CALIF AT LOS ANGELES	464	4,140	3,968	172
7 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	402	3,886	3,688	198
8 JOHNS HOPKINS UNIVERSITY	389	1,424	1,294	130
9 UNIVERSITY OF CALIF AT BERKELEY	380	5,400	5,400	0
10 UNIVERSITY OF CALIF AT SAN DIEGO	380	1,210	1,142	68
TOTAL, 1ST 10 INSTS.	5,406	29,673	27,425	2,248
11 CORNELL UNIVERSITY	368	3,011	2,999	12
12 UNIVERSITY OF WISCONSIN - MADISON	362	5,346	4,715	631
13 UNIVERSITY OF MINNESOTA	360	5,203	4,295	908
14 COLUMBIA UNIV MAIN DIVISION	356	3,159	2,300	859
15 UNIVERSITY OF PENNSYLVANIA	340	2,642	2,036	606
16 WASHINGTON UNIVERSITY	325	1,301	1,050	251
17 BAYLOR COLLEGE OF MEDICINE	297	142	139	3
18 UNIVERSITY OF COLORADO	269	3,501	2,625	876
19 UNIVERSITY OF ILLINOIS - URBANA	263	4,494	4,243	251
20 UNIVERSITY OF MICHIGAN	258	4,319	3,844	475
TOTAL, 1ST 20 INSTS.	8,604	62,791	55,671	7,120
21 DUKE UNIVERSITY	250	950	885	65
22 INDIANA UNIVERSITY, ALL CAMPUSES	241	2,273	1,630	643
23 UNIVERSITY OF CHICAGO	227	1,420	1,392	28
24 ROCKEFELLER UNIVERSITY	215	106	96	10
25 UNIV OF TEXAS AT AUSTIN	211	4,301	3,599	702
26 UNIVERSITY OF SOUTHERN CALIFORNIA	208	7,651	3,209	4,442
27 UNIVERSITY OF IOWA	207	2,031	1,628	403
28 OHIO STATE UNIVERSITY	204	4,708	3,875	833
29 YESHIVA UNIVERSITY	199	527	420	107
30 UNIV OF NORTH CAROLINA AT CHAPEL HILL	195	2,553	2,301	252
TOTAL, 1ST 30 INSTS.	10,761	89,311	74,706	14,605
31 CASE WESTERN RESERVE UNIVERSITY	195	1,736	1,174	562
32 SUNY - STONY BROOK	189	2,261	1,634	627
33 CALIFORNIA INSTITUTE OF TECHNOLOGY	189	955	955	0
34 PURDUE UNIVERSITY	186	4,192	3,128	1,064
35 NEW YORK UNIVERSITY	180	3,296	1,310	1,986
36 UNIVERSITY OF ARIZONA	176	3,236	2,446	790
37 UNIVERSITY OF FLORIDA	174	2,812	2,327	485
38 UNIVERSITY OF VIRGINIA	167	1,529	1,323	206
39 UNIVERSITY OF ROCHESTER	165	1,005	859	146
40 PRINCETON UNIVERSITY	160	1,131	1,131	0
TOTAL, 1ST 40 INSTS.	12,542	111,464	90,993	20,471
41 NORTHWESTERN UNIVERSITY	160	1,590	1,441	149
42 UNIVERSITY OF CALIF AT DAVIS	155	2,790	2,677	113
43 UNIVERSITY OF MARYLAND - COLLEGE PARK	152	2,996	1,732	1,264
44 MICHIGAN STATE UNIVERSITY	151	3,079	2,478	601
45 UNIV OF TEXAS HLTH SCI CTR AT DALLAS	148	236	226	10
46 VANDERBILT UNIVERSITY	146	689	631	58
47 UNIVERSITY OF UTAH	127	1,951	1,460	491
48 UNIVERSITY OF CONNECTICUT	122	2,396	1,953	443
49 TEXAS A & M UNIVERSITY	122	3,679	2,912	767
50 UNIVERSITY OF CALIF AT IRVINE	122	1,163	1,037	126
TOTAL, 1ST 50 INSTS.	13,947	132,033	107,540	24,493
51 UNIVERSITY OF PITTSBURGH	121	4,643	2,391	2,252
52 THE UNIVERSITY OF ALABAMA IN BIRMINGHAM	119	986	646	340
53 SUNY - BUFFALO	117	2,296	1,528	768
54 UNIVERSITY OF KANSAS	117	2,257	1,969	288
55 RUTGERS THE STATE UNIVERSITY	105	4,078	1,719	2,359
56 VIRGINIA COMMONWEALTH UNIVERSITY	105	1,370	926	444
57 TEMPLE UNIVERSITY	105	1,212	861	351
58 ADELPHI UNIVERSITY	99	897	304	593
59 UNIV OF TEXAS HLTH SCI CTR SAN ANTONIO	96	241	155	86
60 UNIVERSITY OF KENTUCKY	92	1,772	1,261	511
TOTAL, 1ST 60 INSTS.	15,023	151,785	119,300	32,485

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

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INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
61 UNIVERSITY OF GEORGIA	90	1,870	1,637	233
62 UNIVERSITY OF MASSACHUSETTS AT AMHERST	90	2,162	1,541	621
63 COLORADO STATE UNIVERSITY	90	1,831	1,385	446
64 LOUISIANA STATE UNIVERSITY SYSTEM	89	1,823	1,427	396
65 UNIVERSITY OF CALIF AT SANTA BARBARA	86	1,228	1,175	53
66 ST LOUIS UNIVERSITY	83	765	427	338
67 PENNSYLVANIA STATE UNIVERSITY	82	3,489	2,653	836
68 UNIVERSITY OF OKLAHOMA	82	1,993	1,378	615
69 CARNEGIE-MELLON UNIVERSITY	82	1,081	879	202
70 UNIVERSITY OF CALIF AT RIVERSIDE	81	927	881	46
TOTAL, 1ST 70 INSTS.	15,878	168,954	132,683	36,271
71 UNIV OF ILLINOIS MED CENTER - CHICAGO	76	768	423	345
72 UNIVERSITY OF MISSOURI - COLUMBIA	76	2,060	1,464	596
73 NORTH CAROLINA STATE UNIV AT RALEIGH	74	2,527	2,051	476
74 RICE UNIVERSITY	70	677	648	29
75 UNIVERSITY OF TENNESSEE AT KNOXVILLE	70	2,826	1,844	982
76 BRANDEIS UNIVERSITY	70	325	317	8
77 ATLANTA UNIVERSITY	69	556	417	139
78 TUFTS UNIVERSITY	65	562	432	130
79 UNIV OF TEXAS MED BRANCH AT GALVESTON	63	157	128	29
80 ARIZONA STATE UNIVERSITY	63	2,424	1,387	1,037
TOTAL, 1ST 80 INSTS.	16,574	181,836	141,794	40,042
81 UNIVERSITY OF MARYLAND - BALT PROF SCH	62	718	330	388
82 FLORIDA STATE UNIVERSITY	61	1,650	1,188	462
83 UNIV OF MED AND DENT OF NEW JERSEY	59	216	158	58
84 CUNY MOUNT SINAI SCHOOL OF MEDICINE	58	0	0	0
85 UNIVERSITY OF CINCINNATI	56	2,422	1,396	1,026
86 UNIVERSITY OF OREGON	54	709	642	67
87 UNIVERSITY OF HOUSTON	54	1,503	771	732
88 UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	51	635	415	220
89 KANSAS STATE UNIV OF AGR & APPLIED SCI	50	1,266	1,008	258
90 ALBANY MEDICAL COLLEGE	49	59	56	3
TOTAL, 1ST 90 INSTS.	17,128	191,014	147,758	43,256
91 BROWN UNIVERSITY	49	746	693	53
92 BOSTON UNIVERSITY	49	2,528	1,672	856
93 UNIVERSITY OF NEBRASKA - LINCOLN	49	1,403	1,106	297
94 CUNY GRADUATE SCHOOL AND UNIV CENTER	48	1,830	1,698	132
95 SYRACUSE UNIVERSITY	48	2,172	1,197	975
96 VIRGINIA POLYTECHNIC INST AND STATE UNIV	48	2,373	1,848	525
97 UNIFORMED SERV UNIV OF THE HLTH SCIENCES	48	44	44	0
98 EMORY UNIVERSITY	47	483	360	123
99 WAYNE STATE UNIVERSITY	47	2,124	1,235	889
100 OREGON STATE UNIVERSITY	46	1,622	1,454	168
TOTAL, 1ST 100 INSTS.	17,607	206,339	159,065	47,274
101 UNIVERSITY OF MIAMI	46	961	725	236
102 IOWA STATE UNIVERSITY OF SCI & TECH	45	2,581	2,068	513
103 UNIVERSITY OF MASSACHUSETTS AT WORCESTER	45	34	32	2
104 UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	45	0	0	0
105 UNIVERSITY OF SOUTH CAROLINA	44	1,814	1,075	739
106 RENSSELAER POLYTECHNIC INSTITUTE	43	1,695	1,270	425
107 WASHINGTON STATE UNIVERSITY	40	1,374	1,230	144
108 UNIVERSITY OF TENNESSEE CTR HLTH SCIENCE	38	113	77	36
109 UNIVERSITY OF HAWAII AT MANOA	38	2,053	1,758	295
110 LOMA LINDA UNIVERSITY	38	947	467	480
TOTAL, 1ST 110 INSTS.	18,029	217,911	167,767	50,144
111 HOWARD UNIVERSITY	38	932	740	192
112 GEORGIA INSTITUTE OF TECHNOLOGY	37	2,079	1,600	479
113 TEXAS TECH UNIVERSITY	37	1,004	859	145
114 MEDICAL UNIVERSITY OF SOUTH CAROLINA	37	93	83	10
115 WEST VIRGINIA UNIVERSITY	34	2,456	1,159	1,297
116 UNIVERSITY OF CALIF AT SANTA CRUZ	33	369	369	0
117 CUNY CITY COLLEGE	33	868	375	493
118 SUNY - ALBANY	32	907	558	349
119 GEORGETOWN UNIVERSITY	31	998	679	319
120 UNIVERSITY OF NEW MEXICO	31	1,442	912	530
TOTAL, 1ST 120 INSTS.	18,372	229,059	175,101	53,958

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

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INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
121 UNIVERSITY OF NOTRE DAME	31	611	565	46
122 UNIVERSITY OF ILLINOIS - CHICAGO CIRCLE	30	1,661	1,190	471
123 OKLAHOMA STATE UNIVERSITY	30	1,443	1,257	186
124 DARTMOUTH COLLEGE	30	281	273	8
125 NORTHEASTERN UNIVERSITY	29	3,399	949	2,450
126 ILLINOIS INSTITUTE OF TECHNOLOGY	28	1,737	475	1,262
127 NORTH TEXAS STATE UNIVERSITY	28	1,020	762	258
128 MEDICAL COLLEGE OF GEORGIA	27	168	122	46
129 UTAH STATE UNIVERSITY	26	1,164	1,004	160
130 UNIVERSITY OF MISSISSIPPI	26	599	489	110
TOTAL, 1ST 130 INSTS.	18,657	241,142	182,187	58,955
131 RUSH UNIVERSITY	25	269	134	135
132 CLEMSON UNIVERSITY	25	1,037	756	281
133 UNIVERSITY OF LOUISVILLE	24	1,070	597	473
134 CLARKSON COLLEGE OF TECHNOLOGY	23	299	242	57
135 NEW YORK MEDICAL COLLEGE	22	185	61	124
136 MONTANA STATE UNIVERSITY	22	498	478	20
137 UNIVERSITY OF ARKANSAS	21	1,035	809	226
138 THOMAS JEFFERSON UNIVERSITY	21	73	58	15
139 LEHIGH UNIVERSITY	20	863	506	357
140 WAKE FOREST UNIVERSITY	20	167	113	54
TOTAL, 1ST 140 INSTS.	18,880	246,638	185,941	60,697
141 LOYOLA UNIVERSITY OF CHICAGO	19	874	426	448
142 MEDICAL COLLEGE OF WISCONSIN	19	67	60	7
143 CATHOLIC UNIVERSITY OF AMERICA	19	1,713	712	1,001
144 WRIGHT STATE UNIVERSITY	19	629	354	275
145 DREXEL UNIVERSITY	18	1,056	388	668
146 UNIVERSITY OF WISCONSIN - MILWAUKEE	18	1,789	985	804
147 SUNY - UPSTATE MEDICAL CENTER	18	48	30	18
148 OREGON HEALTH SCIENCES UNIVERSITY	18	53	48	5
149 BRIGHAM YOUNG UNIVERSITY	18	1,009	712	297
150 UNIVERSITY OF NEBRASKA MEDICAL CENTER	18	241	124	117
TOTAL, 1ST 150 INSTS.	19,064	254,117	189,780	64,337
151 UNIVERSITY OF IDAHO	18	703	477	226
152 TULANE UNIVERSITY OF LOUISIANA	17	846	658	188
153 UNIV OF TEXAS AT DALLAS	17	788	424	364
154 SUNY - DOWNSTATE MEDICAL CENTER	16	80	30	50
155 NEW MEXICO STATE UNIVERSITY	16	746	553	193
156 UNIVERSITY OF RHODE ISLAND	15	993	678	315
157 SUNY - BINGHAMTON	15	1,090	561	529
158 AMERICAN UNIVERSITY	15	1,705	530	1,175
159 SAN DIEGO STATE UNIVERSITY	14	2,068	1,188	880
160 UNIVERSITY OF WYOMING	14	802	701	101
TOTAL, 1ST 160 INSTS.	19,221	263,938	195,580	68,358
161 AUBURN UNIVERSITY	14	922	758	164
162 NORTH DAKOTA STATE UNIVERSITY	14	587	493	94
163 UNIV OF TEXAS AT ARLINGTON	14	1,863	926	937
164 THE MEDICAL COLLEGE OF PENNSYLVANIA	14	95	29	66
165 STEVENS INSTITUTE OF TECHNOLOGY	14	1,222	509	713
166 UNIVERSITY OF NEVADA AT RENO	14	413	355	58
167 WOODS HOLE OCEANOGRAPHIC INSTITUTION	13	98	98	0
168 UNIVERSITY OF HEALTH SCIENCES	13	81	80	1
169 UNIVERSITY OF DENVER	13	960	723	237
170 UNIVERSITY OF AKRON	12	1,061	527	534
TOTAL, 1ST 170 INSTS.	19,356	271,240	200,078	71,162
171 UNIVERSITY OF SOUTH FLORIDA	12	955	556	399
172 THE UNIVERSITY OF ALABAMA	12	743	577	166
173 UNIVERSITY OF SOUTH ALABAMA	12	190	117	73
174 UNIVERSITY OF DELAWARE	12	1,173	734	439
175 SUNY - COLL OF ENV SCIENCE AND FORESTRY	11	417	305	112
176 GEORGE WASHINGTON UNIVERSITY	11	3,308	774	2,534
177 UNIVERSITY OF MARYLAND - BALTIMORE CNTY	11	323	134	189
178 UNIVERSITY OF NORTH DAKOTA	11	359	277	82
179 GEORGIA STATE UNIVERSITY	10	783	482	301
180 WESTERN MICHIGAN UNIVERSITY	10	1,491	651	840
TOTAL, 1ST 180 INSTS.	19,468	280,982	204,685	76,297

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

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INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
181 OREGON GRADUATE CENTER	10	74	55	19
182 HAHNEMANN UNIVERSITY	10	244	237	7
183 EAST CAROLINA UNIVERSITY	10	413	262	151
184 US NAVAL POSTGRADUATE SCHOOL	10	952	952	0
185 BAYLOR UNIVERSITY	9	254	209	45
186 BOSTON COLLEGE	9	411	347	64
187 MISSISSIPPI STATE UNIVERSITY	9	844	660	184
188 UNIVERSITY OF PUERTO RICO MED SCI CAMPUS	8	369	277	92
189 UNIVERSITY OF MISSOURI - ROLLA	8	995	561	434
190 MARQUETTE UNIVERSITY	8	575	353	222
TOTAL, 1ST 190 INSTS.	19,559	286,113	208,598	77,515
191 SOUTHERN METHODIST UNIVERSITY	8	821	289	532
192 OAKLAND UNIVERSITY	8	305	141	164
193 MIAMI UNIVERSITY	7	528	432	96
194 CUNY QUEENS COLLEGE	7	357	131	226
195 THE UNIVERSITY OF ALABAMA IN HUNTSVILLE	7	460	170	290
196 UNIVERSITY OF MAINE AT ORONO	7	416	361	55
197 SAN JOSE STATE UNIVERSITY	6	2,022	523	1,499
198 STEPHEN F. AUSTIN STATE UNIVERSITY	6	261	183	78
199 UNIV OF TEXAS AT EL PASO	6	630	252	378
200 COLLEGE OF WILLIAM AND MARY	6	287	142	145
TOTAL, 1ST 200 INSTS.	19,627	292,200	211,222	80,978
201 OLD DOMINION UNIVERSITY	6	913	383	530
202 NORTHERN ILLINOIS UNIVERSITY	6	883	506	377
203 OHIO UNIVERSITY	6	906	791	115
204 UNIVERSITY OF NEW ORLEANS	6	558	287	271
205 UNIVERSITY OF SOUTHERN MISSISSIPPI	5	510	354	156
206 UNIVERSITY OF NEW HAMPSHIRE	5	501	399	102
207 BOWLING GREEN STATE UNIVERSITY	4	449	366	83
208 INDIANA STATE UNIVERSITY	4	279	205	74
209 SLIPPERY ROCK STATE COLLEGE	4	4	4	0
210 UNIVERSITY OF MISSOURI - ST LOUIS	4	277	120	157
TOTAL, 1ST 210 INSTS.	19,677	297,480	214,637	82,843
211 ILLINOIS STATE UNIVERSITY	4	407	274	133
212 FORDHAM UNIVERSITY	4	590	301	289
213 UNIVERSITY OF MONTANA	4	478	423	55
214 DUQUESNE UNIVERSITY	3	279	114	165
215 CLEVELAND STATE UNIVERSITY	3	830	241	589
216 SUNY COLLEGE AT BUFFALO	3	56	26	30
217 UNIVERSITY OF ALASKA AT FAIRBANKS	3	355	271	84
218 MEHARRY MEDICAL COLLEGE	3	34	34	0
219 TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	3	52	45	7
220 EAST TENNESSEE STATE UNIVERSITY	3	237	133	104
TOTAL, 1ST 220 INSTS.	19,710	300,798	216,499	84,299
221 KIRKSVILLE COLLEGE OF OSTEOPATHIC MED	3	0	0	0
222 CREIGHTON UNIVERSITY	3	67	62	5
223 WORCESTER POLYTECHNIC INSTITUTE	3	884	210	674
224 FLORIDA ATLANTIC UNIVERSITY	3	392	150	242
225 UNIVERSITY OF PUERTO RICO - RIO PIEDRAS	3	1,031	674	357
226 SOUTHEASTERN MASSACHUSETTS UNIVERSITY	2	113	46	67
227 TRINITY UNIVERSITY	2	289	133	156
228 CLARK UNIVERSITY	2	193	188	5
229 NEW MEXICO INSTITUTE OF MINING AND TECH	2	184	184	0
230 JOHN CARROLL UNIVERSITY	2	60	23	37
TOTAL, 1ST 230 INSTS.	19,735	304,011	218,169	85,842
231 ALABAMA A & M UNIVERSITY	2	237	173	64
232 MARSHALL UNIVERSITY	2	261	139	122
233 TUSKEGEE INSTITUTE	2	144	138	6
234 MEMPHIS STATE UNIVERSITY	2	792	440	352
235 UNIVERSITY OF TEXAS AT SAN ANTONIO	2	144	33	111
236 UNIVERSITY OF DETROIT	1	476	206	270
237 MASS COLLEGE OF PHARMACY/ALLIED HEALTH	1	57	52	5
238 EASTERN VIRGINIA MEDICAL SCHOOL	1	62	57	5
239 SOUTH DAKOTA STATE UNIVERSITY	1	372	228	144
240 UNIVERSITY OF SOUTH DAKOTA	1	160	129	31
TOTAL, 1ST 240 INSTS.	19,750	306,716	219,764	86,952

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
241	SUNY STATE COLLEGE OF OPTOMETRY	1	6	3	3
242	SOUTH DAKOTA SCHOOL OF MINES AND TECH	1	200	142	58
243	MEDICAL COLLEGE OF OHIO AT TOLEDO	1	40	30	10
244	CUNY LEHMAN COLLEGE	1	40	30	10
245	UNIVERSITY OF TOLEDO	1	623	364	259
246	UNIVERSITY OF DAYTON	1	622	182	440
247	LONG ISLAND UNIVERSITY	1	2,096	339	1,757
248	EASTERN NEW MEXICO UNIVERSITY	1	180	111	69
249	SETON HALL UNIVERSITY	1	396	118	278
250	INSTITUTE OF PAPER CHEMISTRY	1	99	99	0
	TOTAL, 1ST 250 INSTS.	19,760	311,018	221,182	89,836
251	CALIF STATE UNIVERSITY AT NORTHRIDGE	1	1,164	380	784
252	SAN FRANCISCO STATE UNIVERSITY	1	912	296	616
253	UNIVERSITY OF TULSA	1	256	139	117
254	EASTERN WASHINGTON UNIVERSITY	1	299	195	104
255	ORAL ROBERTS UNIVERSITY	1	29	16	13
256	MOREHOUSE COLLEGE	1	0	0	0
257	TEXAS A & I UNIVERSITY	1	174	131	43
258	SOUTHWEST TEXAS STATE UNIVERSITY	1	426	207	219
259	TEXAS WOMAN'S UNIVERSITY	1	1,680	637	1,043
260	SUNY COLLEGE AT PLATTSBURGH	1	51	34	17
	TOTAL, 1ST 260 INSTS.	19,770	316,009	223,217	92,792
261	NORTHERN ARIZONA UNIVERSITY	1	814	306	508
262	CUNY HUNTER COLLEGE	1	1,385	944	441
263	EASTERN ILLINOIS UNIVERSITY	0	123	103	20
264	MONTANA COLLEGE MINERAL SCI & TECHNOLOGY	0	59	51	8
265	CENTRAL MICHIGAN UNIVERSITY	0	449	250	199
266	ANDREWS UNIVERSITY	0	93	31	62
267	JACKSONVILLE UNIVERSITY	0	12	0	12
268	MICHIGAN TECHNOLOGICAL UNIVERSITY	0	310	300	10
269	KEARNEY STATE COLLEGE	0	10	8	2
270	RIVIER COLLEGE	0	57	2	55
	TOTAL, 1ST 270 INSTS.	19,772	319,321	225,212	94,109
271	UNIVERSITY OF MISSOURI - KANSAS CITY	0	633	211	422
272	EASTERN MICHIGAN UNIVERSITY	0	460	170	290
273	ROLLINS COLLEGE	0	24	11	13
274	UNIVERSITY OF NEBRASKA - OMAHA	0	573	220	353
275	FLORIDA A & M UNIVERSITY	0	55	47	8
276	NEW JERSEY INSTITUTE OF TECHNOLOGY	0	849	168	681
277	SOUTHEAST MISSOURI STATE UNIVERSITY	0	28	15	13
278	SOUTHWEST MISSOURI STATE UNIVERSITY	0	81	29	52
279	UNIVERSITY OF NEVADA AT LAS VEGAS	0	187	93	94
280	WASHBURN UNIV OF TOPEKA	0	16	8	8
	TOTAL, 1ST 280 INSTS.	19,772	322,227	226,184	96,043
281	NORTHERN MICHIGAN UNIVERSITY	0	82	38	44
282	NOVA UNIVERSITY	0	716	415	301
283	CENTRAL MISSOURI STATE UNIVERSITY	0	200	130	70
284	FLORIDA INSTITUTE OF TECHNOLOGY	0	2,720	588	2,132
285	WESTERN NEW ENGLAND COL	0	145	0	145
286	GALLAUDET COLLEGE	0	14	14	0
287	ALFRED UNIVERSITY	0	178	87	91
288	WICHITA STATE UNIVERSITY	0	695	312	383
289	GEORGE WILLIAMS COLLEGE	0	558	189	369
290	DREW UNIVERSITY	0	17	5	12
	TOTAL, 1ST 290 INSTS.	19,772	327,552	227,962	99,590
291	UNIV OF MASSACHUSETTS-BOSTON	0	48	40	8
292	MONMOUTH COLLEGE(NJ)	0	120	13	107
293	EMPORIA STATE UNIVERSITY - KANSAS	0	221	107	114
294	MONTCLAIR STATE COLLEGE	0	567	68	499
295	BISCAYNE COLLEGE	0	242	105	137
296	STETSON UNIVERSITY	0	8	0	8
297	COOPER UNION	0	43	37	6
298	SUFFOLK UNIVERSITY	0	192	14	178
299	MISSISSIPPI UNIVERSITY FOR WOMEN	0	24	12	12
300	BEMIDJI STATE UNIVERSITY	0	17	8	9
	TOTAL, 1ST 300 INSTS.	19,772	329,034	228,366	100,668

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

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INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
301	NORTHWEST MISSOURI STATE UNIVERSITY	0	83	34	49
302	NORTHEAST MISSOURI STATE UNIVERSITY	0	97	67	30
303	WILLIAM PATERSON COLLEGE	0	149	25	124
304	KEAN COLLEGE OF NEW JERSEY	0	105	9	96
305	SMITH COLLEGE	0	211	206	5
306	WESLEYAN UNIVERSITY	0	100	100	0
307	BARRY COLLEGE	0	216	100	116
308	POLYTECHNIC INSTITUTE OF NEW YORK	0	1,346	191	1,155
309	UNIVERSITY OF HEALTH SCIENCES	0	0	0	0
310	UNIVERSITY OF HARTFORD	0	230	86	144
	TOTAL, 1ST 310 INSTS.	19,772	331,571	229,184	102,387
311	BRADLEY UNIVERSITY	0	139	53	86
312	JACKSON STATE UNIVERSITY	0	202	95	107
313	MISSISSIPPI COLLEGE	0	4	1	3
314	SARAH LAWRENCE COLLEGE	0	50	47	3
315	ST BONAVENTURE UNIVERSITY	0	22	17	5
316	ST JOHN'S UNIVERSITY	0	715	227	488
317	NEW MEXICO HIGHLANDS UNIVERSITY	0	72	70	2
318	TRENTON STATE COLLEGE	0	92	5	87
319	FORT HAYS STATE UNIVERSITY	0	164	81	83
320	CHICAGO COLL OF OSTEO MEDICINE	0	0	0	0
	TOTAL, 1ST 320 INSTS.	19,772	333,031	229,780	103,251
321	WILLIAMS COLLEGE	0	26	26	0
322	ARMSTRONG STATE COLLEGE	0	16	0	16
323	SUNY COLLEGE AT CORTLAND	0	12	7	5
324	SUNY COLLEGE AT FREDONIA	0	29	18	11
325	ST CLOUD STATE UNIVERSITY	0	14	14	0
326	ST MARY'S COLLEGE	0	154	26	128
327	SUNY COLLEGE AT ONEONTA	0	5	3	2
328	SUNY COLLEGE AT OSWEGO	0	174	36	138
329	CUNY BROOKLYN COLLEGE	0	288	25	263
330	SUNY COLLEGE AT POTSDAM	0	25	2	23
	TOTAL, 1ST 330 INSTS.	19,772	333,774	229,937	103,837
331	MOUNT HOLYOKE COLLEGE	0	15	13	2
332	ST JOSEPH COLLEGE	0	97	0	97
333	UNION COLLEGE(NY)	0	123	29	94
334	SOUTHERN CONNECTICUT STATE COLLEGE	0	296	107	189
335	VASSAR COLLEGE	0	2	0	2
336	WAGNER COLLEGE	0	159	13	146
337	CUNY JOHN JAY COLLEGE OF CRIM JUSTICE	0	476	75	401
338	NORTH CAROLINA A & T STATE UNIVERSITY	0	152	100	52
339	APPALACHIAN STATE UNIVERSITY	0	164	118	46
340	UNIVERSITY OF NEW HAVEN	0	590	86	504
	TOTAL, 1ST 340 INSTS.	19,772	335,848	230,478	105,370
341	COLLEGE OF NEW ROCHELLE	0	142	27	115
342	NORTH CAROLINA CENTRAL UNIVERSITY	0	94	46	48
343	COLLEGE OF ST ROSE	0	183	1	182
344	CONNECTICUT COLLEGE	0	26	20	6
345	UNIV OF NORTH CAROLINA AT CHARLOTTE	0	206	67	139
346	UNIV OF NORTH CAROLINA AT GREENSBORO	0	506	221	285
347	SALEM STATE COLLEGE	0	1	0	1
348	WESTERN CAROLINA UNIVERSITY	0	127	69	58
349	AIR FORCE INSTITUTE OF TECHNOLOGY	0	566	566	0
350	CENTRAL CONNECTICUT STATE UNIVERSITY	0	134	22	112
	TOTAL, 1ST 350 INSTS.	19,772	337,833	231,517	106,316
351	FRAMINGHAM STATE COLLEGE	0	64	13	51
352	BRIDGEWATER STATE COLLEGE	0	8	0	8
353	IONA COLLEGE	0	330	0	330
354	HOFSTRA UNIVERSITY	0	453	313	140
355	XAVIER UNIVERSITY	0	155	110	45
356	YOUNGSTOWN STATE UNIVERSITY	0	123	45	78
357	ITHACA COLLEGE	0	43	27	16
358	SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	0	77	31	46
359	MANHATTAN COLLEGE	0	338	118	220
360	WESTERN OREGON STATE COLLEGE	0	85	38	47
	TOTAL, 1ST 360 INSTS.	19,772	339,509	232,212	107,297

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
361 WESTERN STATE COLLEGE OF COLORADO	0	9	6	3
362 MARIST COLLEGE	0	50	22	28
363 PORTLAND STATE UNIVERSITY	0	717	400	317
364 NEW SCHOOL FOR SOCIAL RESEARCH	0	1,923	356	1,567
365 UNIVERSITY OF NORTHERN IOWA	0	70	43	27
366 UNIVERSITY OF PORTLAND	0	123	92	31
367 BRYN MAWR COLLEGE	0	173	77	96
368 BUCKNELL UNIVERSITY	0	32	19	13
369 UNIVERSITY OF NORTHERN COLORADO	0	72	64	8
370 AUGUSTA COLLEGE	0	23	9	14
TOTAL, 1ST 370 INSTS.	19,772	342,701	233,300	109,401
371 UNIVERSITY OF LOWELL	0	1,278	380	898
372 DREW POST-GRADUATE MEDICAL SCHOOL	0	0	0	0
373 PRATT INSTITUTE	0	63	15	48
374 LORAS COLLEGE	0	23	0	23
375 CHICAGO STATE UNIVERSITY	0	44	3	41
376 MARYWOOD COLLEGE	0	694	153	541
377 WIDENER UNIVERSITY	0	90	13	77
378 THE HARTFORD GRADUATE CENTER	0	867	64	803
379 CALIFORNIA STATE COLLEGE	0	59	24	35
380 CHEYNEY STATE COLLEGE	0	0	0	0
TOTAL, 1ST 380 INSTS.	19,772	345,819	233,952	111,867
381 UNIVERSITY OF BRIDGEPORT	0	575	88	487
382 ROCHESTER INSTITUTE OF TECHNOLOGY	0	658	85	573
383 KUTZTOWN STATE COLLEGE	0	49	3	46
384 MANSFIELD STATE COLLEGE	0	14	11	3
385 MILLERSVILLE STATE COLLEGE	0	148	20	128
386 WESTERN ILLINOIS UNIVERSITY	0	320	219	101
387 VALDOSTA STATE COLLEGE	0	132	65	67
388 WEST CHESTER UNIVERSITY	0	298	68	230
389 PHILA COLLEGE OF OSTEOPATHIC MEDICINE	0	41	41	0
390 PHILADELPHIA COLL OF PHARMACY AND SCI	0	42	39	3
TOTAL, 1ST 390 INSTS.	19,772	348,096	234,591	113,505
391 TRINITY COLLEGE	0	41	0	41
392 SWARTHMORE COLLEGE	0	0	0	0
393 PITTSBURG STATE UNIVERSITY	0	194	97	97
394 ADAMS STATE UNIVERSITY	0	36	15	21
395 UNIVERSITY OF SCRANTON	0	167	65	102
396 VILLANOVA UNIVERSITY	0	1,019	168	851
397 WILKES COLLEGE	0	5	0	5
398 DRAKE UNIVERSITY	0	100	34	66
399 SUNY COLLEGE AT BROCKPORT	0	114	15	99
400 PROVIDENCE COLLEGE	0	1	0	1
TOTAL, 1ST 400 INSTS.	19,772	349,773	234,985	114,788
401 RHODE ISLAND COLLEGE	0	182	81	101
402 COLLEGE OF OSTEOPATHIC MED & SURGERY	0	0	0	0
403 CITADEL MILITARY COLL OF SOUTH CAROLINA	0	49	2	47
404 UNIVERSITY OF THE PACIFIC	0	75	61	14
405 COLLEGE OF CHARLESTON	0	87	28	59
406 FURMAN UNIVERSITY	0	4	4	0
407 UNIVERSITY OF SANTA CLARA	0	1,165	35	1,130
408 WINTHROP COLLEGE	0	31	17	14
409 SUNY COLLEGE AT NEW PALTZ	0	123	46	77
410 SUNY COLLEGE AT GENESEO	0	73	53	20
TOTAL, 1ST 410 INSTS.	19,772	351,562	235,312	116,250
411 MOORHEAD STATE UNIVERSITY	0	57	39	18
412 MOREHEAD STATE UNIVERSITY	0	75	41	34
413 ASSUMPTION COLLEGE	0	152	31	121
414 FISK UNIVERSITY	0	28	25	3
415 ANNA MARIA COLLEGE	0	303	9	294
416 AMERICAN INTERNATIONAL COLLEGE	0	167	26	141
417 MIDDLE TENNESSEE STATE UNIVERSITY	0	244	112	132
418 TENNESSEE STATE UNIVERSITY	0	196	53	143
419 TENNESSEE TECHNOLOGICAL UNIVERSITY	0	175	113	62
420 UNIVERSITY OF TENNESSEE AT CHATTANOOGA	0	179	56	123
TOTAL, 1ST 420 INSTS.	19,772	353,138	235,817	117,321

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
421 UNIVERSITY OF SAN FRANCISCO	0	441	398	43
422 UNIVERSITY OF REDLANDS	0	42	25	17
423 ABILENE CHRISTIAN UNIVERSITY	0	35	30	5
424 ANGELO STATE UNIVERSITY	0	68	19	49
425 EAST TEXAS STATE UNIVERSITY	0	487	201	286
426 INCARNATE WORD COLLEGE	0	10	6	4
427 LAMAR UNIVERSITY	0	296	187	109
428 MIDWESTERN STATE UNIVERSITY	0	146	25	121
429 WASHINGTON COLLEGE	0	82	0	82
430 PAN AMERICAN UNIVERSITY	0	28	7	21
TOTAL, 1ST 430 INSTS.	19,772	354,773	236,715	118,058
431 PEPPERDINE UNIVERSITY	0	382	233	149
432 SAM HOUSTON STATE UNIVERSITY	0	423	307	116
433 WEST GEORGIA COLLEGE	0	79	53	26
434 QUINNIPIAC COLLEGE	0	205	12	193
435 ST MARY'S UNIVERSITY OF SAN ANTONIO	0	234	79	155
436 GEORGIA COLLEGE	0	145	7	138
437 SUL ROSS STATE UNIVERSITY	0	73	38	35
438 PRAIRIE VIEW A & M UNIVERSITY	0	170	127	43
439 TARLETON STATE UNIVERSITY	0	66	26	40
440 PACIFIC STATES UNIVERSITY	0	28	22	6
TOTAL, 1ST 440 INSTS.	19,772	356,578	237,619	118,959
441 TEXAS CHRISTIAN UNIVERSITY	0	160	91	69
442 WORCESTER STATE COLLEGE	0	130	0	130
443 TEXAS SOUTHERN UNIVERSITY	0	167	111	56
444 OCCIDENTAL COLLEGE	0	7	6	1
445 WESTERN CONNECTICUT STATE UNIVERSITY	0	18	4	14
446 UNIVERSITY OF BALTIMORE	0	274	41	233
447 NORTHROP UNIVERSITY	0	42	24	18
448 VALPARAISO UNIVERSITY	0	117	2	115
449 MONTEREY INST OF INTL STUDIES	0	76	64	12
450 UNIVERSITY OF LA VERNE	0	41	13	28
TOTAL, 1ST 450 INSTS.	19,772	357,610	237,975	119,635
451 GOLDEN GATE UNIVERSITY	0	332	52	280
452 FULLER THEOLOGICAL SEMINARY	0	175	174	1
453 TOWSON STATE UNIVERSITY	0	348	80	268
454 WEST TEXAS STATE UNIVERSITY	0	264	54	210
455 DOMINICAN COLLEGE OF SAN RAFAEL	0	48	15	33
456 HARVEY MUDD COLLEGE	0	7	7	0
457 GODDARD COLLEGE	0	4	4	0
458 MIDDLEBURY COLLEGE	0	1	1	0
459 CLAREMONT UNIV CENTER & GRADUATE SCHOOL	0	236	133	103
460 HAMPTON INSTITUTE	0	102	73	29
TOTAL, 1ST 460 INSTS.	19,772	359,127	238,568	120,559
461 HOLLINS COLLEGE	0	5	3	2
462 INSTITUTE OF TEXTILE TECHNOLOGY	0	20	20	0
463 LYNCHBURG COLLEGE	0	8	3	5
464 JAMES MADISON UNIVERSITY	0	123	75	48
465 MORGAN STATE UNIVERSITY	0	54	28	26
466 RADFORD UNIVERSITY	0	68	48	20
467 CHAPMAN COLLEGE	0	181	25	156
468 UNIVERSITY OF RICHMOND	0	36	18	18
469 US INTERNATIONAL UNIVERSITY	0	615	339	276
470 GEORGE MASON UNIVERSITY	0	599	161	438
TOTAL, 1ST 470 INSTS.	19,772	360,836	239,288	121,548
471 CALIF STATE COLLEGE OF STANISLAUS	0	205	101	104
472 VIRGINIA STATE UNIVERSITY	0	64	36	28
473 CENTRAL WASHINGTON UNIVERSITY	0	83	62	21
474 EAST CENTRAL OKLAHOMA STATE UNIV	0	34	19	15
475 PACIFIC LUTHERAN UNIVERSITY	0	154	75	79
476 SEATTLE UNIVERSITY	0	343	138	205
477 UNIVERSITY OF PUGET SOUND	0	20	20	0
478 SONOMA STATE UNIVERSITY	0	85	21	64
479 WALLA WALLA COLLEGE	0	9	9	0
480 LOYOLA COLLEGE	0	649	137	512
TOTAL, 1ST 480 INSTS.	19,772	362,482	239,906	122,576

CONTINUED ON NEXT PAGE.

TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
481	WESTERN WASHINGTON UNIVERSITY	0	206	164	42
482	WHITWORTH COLLEGE	0	56	56	0
483	IDAHO STATE UNIVERSITY	0	236	180	56
484	PACIFIC UNIVERSITY	0	4	4	0
485	HOOD COLLEGE	0	386	23	363
486	MILWAUKEE SCHOOL OF ENGINEERING	0	77	0	77
487	SOUTHERN OREGON STATE COLLEGE	0	38	26	12
488	DE PAUL UNIVERSITY	0	957	385	572
489	UNIVERSITY OF WISCONSIN - GREEN BAY	0	65	17	48
490	UNIVERSITY OF WISCONSIN - STOUT	0	362	239	123
	TOTAL, 1ST 490 INSTS.	19,772	364,869	241,000	123,869
491	UNIVERSITY OF WISCONSIN - EAU CLAIRE	0	72	44	28
492	UNIVERSITY OF WISCONSIN - LA CROSSE	0	81	63	18
493	UNIVERSITY OF WISCONSIN - PLATTEVILLE	0	58	32	26
494	UNIVERSITY OF WISCONSIN - RIVER FALLS	0	5	3	2
495	UNIVERSITY OF WISCONSIN - STEVENS POINT	0	141	114	27
496	UNIVERSITY OF WISCONSIN - WHITEWATER	0	42	25	17
497	SAINT FRANCIS COLLEGE	0	39	9	30
498	UNIVERSITY OF GUAM	0	35	4	31
499	CATHOLIC UNIVERSITY OF PUERTO RICO	0	15	10	5
500	UNIVERSITY OF PUERTO RICO	0	301	218	83
	TOTAL, 1ST 500 INSTS.	19,772	365,658	241,522	124,136
501	FROSTBURG STATE COLLEGE	0	79	29	50
502	UNIVERSITY OF CENTRAL FLORIDA	0	710	280	430
503	UNIVERSITY OF WEST FLORIDA	0	277	106	171
504	ROSE-HULMAN INSTITUTE OF TECHNOLOGY	0	24	20	4
505	COLUMBIA UNIV TEACHERS COLLEGE	0	1,690	700	990
506	GEORGIA SOUTHERN COLLEGE	0	65	39	26
507	CALIF STATE UNIVERSITY AT SACRAMENTO	0	1,302	513	789
508	JOHN F KENNEDY UNIVERSITY	0	753	287	466
509	CUNY COLLEGE OF STATEN ISLAND ST GEORGE	0	12	2	10
510	CUNY BERNARD BARUCH COLLEGE	0	671	135	536
	TOTAL, 1ST 510 INSTS.	19,772	371,241	243,635	127,608
511	COPPIN STATE COLLEGE	0	27	5	22
512	BAYLOR COLLEGE OF DENTISTRY	0	3	0	3
513	HUMBOLDT STATE UNIVERSITY	0	104	56	48
514	CALIF STATE UNIVERSITY AT FRESNO	0	653	217	436
515	EMERSON COLLEGE	0	43	39	4
516	WORLD UNIVERSITY	0	0	0	0
517	CALIF STATE UNIVERSITY AT CHICO	0	248	205	43
518	WEST VIRGINIA COLLEGE OF GRAD STUDIES	0	528	43	485
519	INDIANA CENTRAL UNIVERSITY	0	70	60	10
520	UNIVERSITY OF SOUTHWESTERN LOUISIANA	0	557	403	154
	TOTAL, 1ST 520 INSTS.	19,772	373,474	244,661	128,813
521	EAST STROUDSBURG STATE COLLEGE	0	24	6	18
522	CALIF STATE POLYTECHNIC UNIV AT POMONA	0	483	147	336
523	SPALDING COLLEGE	0	110	12	98
524	EDINBORO UNIVERSITY	0	157	59	98
525	CALIFORNIA STATE COLLEGE AT BAKERSFIELD	0	67	9	58
526	ROOSEVELT UNIVERSITY	0	444	115	329
527	UNIVERSITY OF EVANSVILLE	0	147	20	127
528	ARKANSAS STATE UNIVERSITY	0	150	109	41
529	WEST COAST UNIVERSITY	0	243	235	8
530	CALIF POLY STATE UNIV AT SAN LUIS OBISPO	0	197	141	56
	TOTAL, 1ST 530 INSTS.	19,772	375,496	245,514	129,982
531	CALIF STATE COLLEGE AT SAN BERNARDINO	0	92	44	48
532	CALIF STATE UNIV AT DOMINGUEZ HILLS	0	418	210	208
533	CALIF STATE UNIV AT LOS ANGELES	0	1,096	311	785
534	CALIF STATE UNIV AT LONG BEACH	0	1,744	183	1,561
535	CALIF STATE UNIV AT HAYWARD	0	547	147	400
536	CALIF STATE UNIV AT FULLERTON	0	1,287	196	1,091
537	CALIFORNIA LUTHERAN COLLEGE	0	26	5	21
538	BIOLA UNIVERSITY	0	182	147	35
539	AZUSA PACIFIC UNIVERSITY	0	108	99	9
540	FAIRLEIGH DICKINSON UNIVERSITY	0	1,285	260	1,025
	TOTAL, 1ST 540 INSTS.	19,772	382,281	247,116	135,165

CONTINUED ON NEXT PAGE.

TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING	POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
541 UNIVERSITY OF ARKANSAS - MED SCI CAMPUS	0	189	81	108
542 ST JOSEPH'S UNIVERSITY	0	44	5	39
543 DE PAUW UNIVERSITY	0	4	4	0
544 NORTHEASTERN ILLINOIS UNIVERSITY	0	217	12	205
545 COLORADO SCHOOL OF MINES	0	559	415	144
546 NEW YORK INSTITUTE OF TECHNOLOGY	0	748	175	573
547 PACE UNIVERSITY	0	1,058	250	808
548 RUSSELL SAGE COLLEGE	0	521	50	471
549 UNIVERSITY OF ARKANSAS AT LITTLE ROCK	0	281	108	173
550 SOUTHERN UNIVERSITY A & M COLLEGE	0	71	42	29
TOTAL, 1ST 550 INSTS.	19,772	385,973	248,258	137,715
551 ANTIOCH UNIVERSITY	0	876	858	18
552 SOUTHEASTERN LOUISIANA UNIVERSITY	0	15	11	4
553 KENT STATE UNIVERSITY	0	718	495	223
554 NORTHWESTERN STATE UNIV OF LOUISIANA	0	223	83	140
555 HENDERSON STATE UNIVERSITY	0	18	6	12
556 NORTHEAST LOUISIANA UNIVERSITY	0	137	96	41
557 UNIVERSITY OF CENTRAL ARKANSAS	0	106	41	65
558 WHITTIER COLLEGE	0	2	1	1
559 MCNEESE STATE UNIVERSITY	0	122	36	86
560 INDIANA UNIVERSITY OF PENNSYLVANIA	0	151	102	49
TOTAL, 1ST 560 INSTS.	19,772	388,341	249,987	138,354
561 LOYOLA UNIVERSITY IN NEW ORLEANS	0	2	0	2
562 LOUISIANA TECH UNIVERSITY	0	169	129	40
563 GRAMBLING STATE UNIVERSITY	0	21	13	8
564 NICHOLLS STATE UNIVERSITY	0	30	18	12
565 THE WRIGHT INSTITUTE	0	195	186	9
566 WESTERN KENTUCKY UNIVERSITY	0	190	100	90
567 TROY STATE UNIVERSITY AT MONTGOMERY	0	95	0	95
568 GOVERNORS STATE UNIVERSITY	0	581	52	529
569 EASTERN KENTUCKY UNIVERSITY	0	147	95	52
570 CLARION STATE COLLEGE	0	88	19	69
TOTAL, 1ST 570 INSTS.	19,772	389,859	250,599	139,260
571 BUTLER UNIVERSITY	0	77	6	71
572 SANGAMON STATE UNIVERSITY	0	702	164	538
573 SAMFORD UNIVERSITY	0	11	4	7
574 JACKSONVILLE STATE UNIVERSITY	0	65	20	45
575 UNIVERSITY OF WISCONSIN - OSHKOSH	0	228	80	148
576 FLORIDA INTERNATIONAL UNIVERSITY	0	21	7	14
577 BALL STATE UNIVERSITY	0	566	270	296
578 UNIVERSITY OF NORTH ALABAMA	0	12	0	12
579 MURRAY STATE UNIVERSITY	0	101	62	39
580 ALABAMA STATE UNIVERSITY	0	16	13	3
TOTAL, 1ST 580 INSTS.	19,772	391,658	251,225	140,433
581 CALIF SCH OF PROF PSYCH - BERKELEY	0	235	235	0
582 MANKATO STATE UNIVERSITY	0	309	170	139
583 UNIVERSITY OF TEXAS OF THE PERMIAN BASIN	0	132	28	104
584 CALIF SCH OF PROF PSYCH - LOS ANGELES	0	280	244	36
585 AUSTIN PEAY STATE UNIVERSITY	0	56	23	33
586 BLOOMSBURG STATE COLLEGE	0	15	7	8
587 UNIVERSITY OF SAN DIEGO	0	96	41	55
588 RAND GRADUATE INSTITUTE POLICY STUDIES	0	54	54	0
589 MIDWEST COLLEGE OF ENGINEERING	0	46	1	45
590 UNION OF EXPERIMENTNG COLLEGES & UNIVS	0	332	332	0
TOTAL, 1ST 590 INSTS.	19,772	393,213	252,360	140,853
591 CALIF SCH OF PROF PSYCH - SAN DIEGO	0	321	250	71
592 CORPUS CHRISTI STATE UNIVERSITY	0	174	36	138
593 WEST VIRGINIA SCH OF OSTEOPATHIC MED	0	0	0	0
594 NATIONAL UNIVERSITY	0	316	234	82
595 UNIV OF TEXAS HLTH SCI CTR AT HOUSTON	0	685	351	334
596 LOYOLA MARYMOUNT UNIVERSITY	0	370	239	131
597 UNIVERSITY OF HOUSTON AT CLEAR LAKE CITY	0	1,035	288	747
598 AMERICAN TECHNOLOGICAL UNIVERSITY	0	80	43	37
599 CALIF SCH OF PROF PSYCH - FRESNO	0	186	186	0
600 CALIFORNIA INSTITUTE OF INTEGRAL STUDIES	0	160	85	75
TOTAL, 1ST 600 INSTS.	19,772	396,540	254,072	142,468

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TABLE E-11. INSTITUTIONS RANKED BY SCIENCE/ENGINEERING POSTDOCTORATE UTILIZATION: 1982

- CONTINUED

INSTITUTIONAL RANKING		POST-DOCTORATES	TOTAL STUDENTS	FULL-TIME STUDENTS	PART-TIME STUDENTS
601	HEED UNIVERSITY	0	0	0	0
602	SHIPPENSBURG STATE COLLEGE	0	248	49	199
603	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE	0	364	241	123
604	UNIVERSITY OF MONTEVALLO	0	20	14	6
605	SOUTHERN ILLINOIS UNIV AT CARBONDALE	0	1,127	734	393
606	NE OHIO UNIV MED SCHOOL	0	21	21	0
607	CARIBBEAN CTR FOR ADV STD	0	392	280	112
608	THE FIELDING INSTITUTE	0	377	377	0
609	GAMNON COLLEGE	0	91	37	54
610	UNIV OF ALASKA AT ANCHORAGE	0	161	41	120
	TOTAL, 1ST 610 INSTS.	19,772	399,341	255,866	143,475
611	UNIV OF ALASKA SOUTHEAST	0	48	9	39
612	UNIVERSITY OF THE DISTRICT OF COLUMBIA	0	123	59	64
613	UNIVERSITY OF TEXAS AT TYLER	0	154	13	141
614	NIAGARA UNIVERSITY	0	16	12	4
	TOTAL, 1ST 614 INSTS.	19,772	399,682	255,959	143,723

NOTE: INCLUDES MEDICAL SCHOOLS
SOURCE: NATIONAL SCIENCE FOUNDATION

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NSF FORM 811
NOVEMBER 1982

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE/ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1982

FORM APPROVED
OMB NO. 3145-0082
APP. EXP. 12/31/83

INSTRUCTIONS FOR SURVEY COORDINATOR

INSTITUTION: 001004-0-4 UNIVERSITY OF MONTEVALLO

1. Please review the list of departments and programs printed on the following pages for accuracy and completeness. Please add any newly formed graduate science or engineering departments or programs in the spaces provided at the end of the departmental list and note any name changes or reorganizations where they occur.

2. Please cross out any discontinued or non-science programs on the departmental list. Programs which do not have graduate students or postdoctorates in fall 1982 but may have them in the future should NOT be crossed out; a check in column (6) of the departmental list can be used in place of a Form 812 for such programs.

3. A list of relevant fields of science/engineering is enclosed showing the 3-digit NSF code and comparable NCES discipline codes for each. Please review the first 3 digits of the codes in column (2) of the departmental list to verify the discipline to which each department or program has been assigned. If you do not agree with this code, note the discipline code to which your department or program most closely corresponds.

4. IN MEDICAL SCHOOLS ONLY, departments or programs followed by a single asterisk (*) include the indented sections or specialties listed beneath them. These sections or specialties may be without organizational autonomy; however, separate data are requested because of special NIH interest in these areas. Please be sure that no duplicate data are reported for the sections/specialties and their parent programs.

5. Please distribute the enclosed Forms 812 to all listed and newly formed departments or programs if data cannot be obtained from your centralized files. Definitions for all data items requested are provided on the Forms 812.

6. Please review the Forms 812 for completeness and reporting consistency and verify or supply the highest degree program offered by each department or program. Please check this year's data against the previous year's data shown on the departmental list and indicate the validity of large year-to-year shifts in the "Notes and Comments" section below or on the individual Forms 812.

7. Please exlude from your response all graduate departments in the fields of education, law, humanities, music, the arts, physical education, library sciences, and all other nonscience fields.

8. Please return one copy of Form 811 (this form) along with one copy of each of the completed Forms 812 by FEBRUARY 11, 1983. Please use the franked envelope provided and return to:

   Universities and Nonprofit Institutions
   Studies Group
   Room L-602
   National Science Foundation
   1800 G Street, N.W.
   Washington, D.C. 20550

9. Care should be taken to submit as complete and accurate a report as possible so that follow-up procedures with your institution can be reduced to a minimum and more timely statistics can be made available. If there are any questions concerning your response, please call Diane Stoner or Cathy Joseph at (617) 492-7100. Thank you.

SURVEY COORDINATOR(S):

NAME: HELEN PERKINS
TITLE: GRADUATE REGISTRAR/CERT.OFFICE
ADDRESS: UNIVERSITY OF MONTEVALLO
MONTEVALLO, ALABAMA 35115

TELEPHONE: 205 665-2521 EXT 345

_____
SIGNATURE OF SURVEY COORDINATOR

_____
DATE COMPLETED

NOTES AND COMMENTS: _____

NSF FORM 811
NOVEMBER 1982

NATIONAL SCIENCE FOUNDATION AND NATIONAL INSTITUTES OF HEALTH
SURVEY OF GRADUATE SCIENCE/ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1982

FORM APPROVED
OMB NO. 3145-0062
APP. EXP. 12/31/83

LIST OF DEPARTMENTS AND PROGRAMS

INSTITUTION: 001004-0-4 UNIVERSITY OF MONTEVALLO

1981 RESPONSE CODE**	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS OR PROGRAMS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1981: FULL TIME	PART TIME	POST-DOCS.	CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
(1)	(2)	(3)	(4)		(5)		(6)
8	72301-8	SPEECH PATHOLOGY AND AUDIOLOGY	MASTER'S	14	6	0	____
		TOTAL, ALL DEPARTMENTS OR PROGRAMS		14	6	0	

ADDITIONAL DEPARTMENTS OR PROGRAMS FOR FALL 1982:
(PLEASE FILL IN COLUMNS 3, 4, AND, IF APPLICABLE, COLUMN 6. PLEASE INDICATE IN COLUMN 2 THE NSF DISCIPLINE CODE YOU FEEL IS MOST APPROPRIATE, OR PROVIDE A BRIEF DESCRIPTION OF THE DEPARTMENT/PROGRAM'S MAJOR AREA OF CONCENTRATION.)

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** 1981 RESPONSE CODE MEANINGS

8 - DATA IMPUTED BY NSF

*** THE FIRST THREE DIGITS OF THE DEPARTMENT CODE ARE A FIELD OF SCIENCE CODE; A LIST OF THESE CODES IS ENCLOSED.

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

INSTRUCTIONS FOR SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1982

General Definitions

A *graduate science/engineering (S/E) student* is defined as a student enrolled for credit in an advanced-degree program leading to either a master's or Ph.D. degree in fall 1982. M.D., D.V.M., or D.D.S. candidates, interns, and residents should *not* be reported *unless* they are concurrently working for a master's or Ph.D. in a science or engineering field or are enrolled in a joint M.D./Ph.D. program. Individuals who already hold an M.D., D.V.M., or D.D.S., master's or Ph.D. degree but who are working on *another master's or Ph.D. degree are to be counted as graduate students, either full or part time. Do not* report such individuals as postdoctorates in item 8.

Graduate S/E students performing thesis or dissertation research away from the campus at Government and contractor-owned facilities in the United States are to be included as long as they are enrolled for credit in an advanced-degree program. Students enrolled at a branch or extension center in a foreign country are to be *excluded*.

A graduate S/E student, whether full- or part-time, should be reported in only one department. If any students are in interdisciplinary programs, please be sure that they are counted only once by their "home" department. If a graduate student is enrolled in an inter-institutional program, please report the student only if the degree will be granted by your institution. Please report in terms of headcounts, *not* in full-time-equivalent (FTE) terms. If data are unavailable or unknown, write "unavailable" or "unknown" in the blank. "N/A" means "not applicable" on this form.

Item Instructions and Definitions

HIGHEST DEGREE OFFERED, item 4: Check the item which refers to the *highest* degree program offered by this science/engineering department in fall 1982. If your department does not offer a graduate degree, but is a department of clinical medicine with or without postdoctorates, check (3).

FULL-TIME GRADUATE STUDENTS, item 5: A full-time graduate student is defined as a student enrolled for credit in an advanced-degree program (not a regular staff member or a postdoctorate) who is engaged full time in training activities in his/her field of science/engineering; these activities may embrace any appropriate combination of study, teaching, and research, depending on *your institution's own policy*. If your department has no full-time graduate students, write "None" in item 5 and move to item 6.

MECHANISMS OF SUPPORT, item 5, lines (1)-(5): Report each full-time graduate S/E student only once according to the source of the largest amount of support received in the fall of 1982. Students receiving *equal* amounts of support from two or more sources should be reported only once, under one of the sources. Students who receive *fellowships* or *traineeships* should be reported on line (1) or (2) respectively, if either of these mechanisms constitute the largest source of his/her support. The Federal Interagency Committee on Education (FICE) differentiates between the two *fellowship and traineeship* stipends as follows: 1) A fellowship is an award made directly to or on behalf of a student selected in a national competition, to enable him to pursue post-baccalaureate training, and 2) a traineeship is an educational award to a student selected by his university. Except for the student selection process, the terms and conditions of the two types of awards are generally identical. A student receiving his/her main support from an assistantship should be classified as a research assistant on line (3) or as a teaching assistant on line (4), depending on how he/she spends the majority of his/her time, e.g., a graduate assistant devoting most of his/her time to teaching should be classified as a graduate teaching assistant. All other full-time graduate students should be reported on line (5).

STUDENTS RECEIVING FINANCIAL ASSISTANCE, item 5, columns (A) through (H): Report the number of full-time graduate S/E students in the appropriate column according to the source of the largest portion of their support. To determine the source, consider only tuition and other academic expenses. If a graduate student receives equal support from more than one source, report student under only one source.

FEDERAL SOURCES, columns (A) through (E): Report the number of full-time graduate S/E students in the appropriate column where they receive the largest portion of their support. Full-time graduate S/E students receiving the largest portion of their support from Federal Government *loans* should be reported as *self-supported*, column (I).

Department of Defense (DOD), column (A): Report full-time graduate S/E students receiving support from the Department of the Army, Navy, or Air Force. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (E) "Other Federal Sources"; if this form of support does not constitute his/her *main* source, the student should be counted in the appropriate column representing that source.

Department of Health and Human Services (HHS), columns (B) and (C): Report full-time graduate students receiving support from the institutes or divisions of the **National Institutes of Health (NIH)** under column (B); support from all other components of HHS should be reported under column (C), as indicated below:

National Institutes of Health, report in column (B):
- Division of Research Resources
- National Cancer Institute
- National Eye Institute
- National Heart, Lung, and Blood Institute
- National Institute on Aging
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
- National Institute of Child Health and Human Development
- National Institute of Dental Research
- National Institute of Environmental Health Sciences
- National Institute of General Medical Sciences
- National Institute of Neurological and Communicative Disorders and Stroke
- National Library of Medicine

Other HHS, report in column (C):
- Alcohol, Drug Abuse, and Mental Health Administration (including National Institute of Mental Health)
- Center for Disease Control
- Food and Drug Administration
- Health Resources Administration
- Health Services Administration
- Office of Human Development

NSF Form 812, Nov. 82

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH

Survey of Graduate Science and Engineering (S/E) Students and Postdoctorates, Fall 1982

Form Approved
OMB No. 3145-0062
Appr. Exp. 12/31/83

DEPARTMENTAL DATA SHEET

Before filling out, please read the instructions. Upon completion, return form to your survey coordinator.

1. Name and address of institution: _____

2. Name of science or engineering department (or unit) covered by this data sheet: _____

3. Person in department (or unit) preparing this form:

   Name: _____

   Title: _____ Phone: [ ]

4. Highest degree offered by department in fall 1982 (CHECK ONE ONLY) Doctorate _____(1) Master's _____(2) No graduate degree offered _____(3)

(LEAVE BLANK)

Response code ..... ☐

Institution and department code

If your department does not enroll graduate students, please move to item 8 below. For identification of S/E fields classification, see enclosed NSF/NCES "Crosswalk." If data are unavailable or unknown, write "unavailable" or unknown" in the blank. "N/A" means "not applicable" on this form.

5. Number of FULL-TIME GRADUATE S/E STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1982		STUDENTS RECEIVING FINANCIAL ASSISTANCE								SELF-SUPPORTED STUDENTS (Including loans and family sources) (I)	TOTAL FOR ALL SOURCES (Sum of (A) thru (I)) (J)
		FEDERAL SOURCES (excluding loans)					NON-FEDERAL SOURCES				
MECHANISMS OF SUPPORT		Department of Defense (A)	HHS: National Institutes of Health (B)	HHS: Other HHS (C)	National Science Foundation (D)	Other Federal sources (E)	Institutional support[1] (F)	Foreign sources (G)	Other U.S. sources[2] (H)		
Graduate Fellowships	(1)										
Graduate Traineeships	(2)										
Graduate Research Assistantships	(3)										
Graduate Teaching Assistantships	(4)										
Other Types of Support	(5)										
FULL-TIME TOTAL	(6)										
For each total on line (6) how many are WOMEN?	(7)										

FIRST-YEAR STUDENTS	(8)	Of the full-time graduate students on line (6), column (J), how many are FIRST-YEAR students?	
FIRST-YEAR WOMEN STUDENTS	(9)	Of the full-time FIRST-YEAR graduate students on line (9), how many are WOMEN?	

[1] Include support from the university and State and local governments.

[2] Include support from nonprofit institutions, industry, and all other U.S. sources.

6. NUMBER OF PART-TIME GRADUATE STUDENTS, FALL 1981		
PART-TIME TOTAL	(1)	
Of the part-time total on line (1), how many are WOMEN?	(2)	

Check List

- ☐ 1. Do all entries reflect headcounts and **NOT** FTE's?
- ☐ 2. Do the data in items 5, 7, and 8 add to totals?
- ☐ 3. Have you **included** all self-supported full-time graduate S/E students in item 5, column I? Note that self-supported students should also be included in the total (column J).
- ☐ 4. Have you **excluded** M.D., D.D.S., and D.V.M. candidates, interns, and residents (except those enrolled in joint programs with the Ph.D.) from items 5, 6, and 7?
- ☐ 5. Does item 5, line 6, column J equal item 7, line 1, column H?
- ☐ 6. Does item 6, line 1 equal item 7, line 2, column H?

7. RACIAL/ ETHNIC BACKGROUND	Of the graduate student totals in items 5 and 6, how many belong to the following racial/ethnic categories?		U.S. CITIZENS ONLY						FOREIGN	TOTAL
			Black non-Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	(G)	(sum of (A) thru (G)) (H)
	Full time (column G should equal item 5, line 6, col. J)	(1)								
	Part time (column G should equal item 6, line 1)	(2)								

Is Racial/Ethnic Background data available at department level?

If not, where available?

8. Number of POSTDOCTORATES and NON-FACULTY DOCTORAL RESEARCH STAFF (Include those affiliated with this department as well as those employed in associated academic research units. Exclude clinical fellows and residents not involved in research.)		POSTDOCTORATES						OTHER NON-FACULTY DOCTORAL RESEARCH STAFF	TOTAL (Sum of (E) and (G))
		SOURCE OF SUPPORT				TOTAL for all sources (A) thru (D)	Of the total in (E), how many are FOREIGN?		
		Federal			Non-Federal				
		Fellowships (A)	Traineeships (B)	Research grants (C)	(D)	(E)	(F)	(G)	(H)
TOTAL	(1)								
Of the total on line (1), how many are WOMEN?	(2)								
Optional: Of the total on line (1) how many also hold the M.D., D.D.S., or D.V.M. degree?	(3)								

Approximately how many personhours were required to complete this form? ☐

Please provide comments to explain any variances from prior year's data:

_____

_____

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be used for statistical purposes only. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

Other Federal sources, column (E): Report the number of full-time graduate S/E students receiving support from all other Federal agencies, including the Department of Education.

NON-FEDERAL SOURCES, columns (F) through (H):

Institutional support, column (F): Report full-time graduate S/E students receiving support from your own institution and State and local governments. Students supported by funds given to a university by the Federal Government, such as training grant funds, should be reported under the appropriate Federal agency and NOT reported as *institutional support.*

Foreign sources, column (G): Include support from any non-U.S. source.

Other U.S. sources, column (H): Include support from nonprofit institutions, private industry, and all other U.S. sources.

SELF-SUPPORTED STUDENTS, column (I): Include full-time graduate S/E students whose main source of support is derived from loans from any source and from personal or family financial contributions. Full-time graduate S/E students receiving the largest portion of their support from Federal loans or tuition waivers should be reported here. Note that these students should be included in the total, column (J) Foreign *self-supported* students are to be reported here, also.

Women, line (7): Report all women S/E students by their source of main support. Please note that in each column, data on line (7) should not exceed the total on line (6).

NOTE: *Foreign students* are now to be reported in item 7, column G.

First-year students, lines (8) and (9): A first-year student is defined as one who will have completed *less than a full year* of graduate study as of the beginning of the fall term in 1982 *in the S/E program in which he/she is enrolled for a degree.* All other graduate S/E students should be considered beyond their first year.

PART-TIME GRADUATE S/E STUDENTS, item 6: A part-time graduate student is defined as a student who is enrolled in an advanced-degree program who is NOT pursuing graduate work full time as defined in item 5. Report the *total* number of part-time graduate students on line (1); if a department has no part-time graduate students, enter "None" and move to item 7.

RACIAL/ETHNIC BACKGROUND, item 7. Racial/ethnic designations as used in this survey do not denote scientific definitions of anthropological origins; a graduate student may thus be included in the group to which he/she appears to belong, identifies with, or is regarded in the community as belonging. No person should be counted in more than one racial/ethnic group, however, and only those with U.S. citizenship should be reported in columns (A) through (F).

On line 1, report the total number of full-time S/E graduate students under the appropriate racial/ethnic category. The total for each line should equal the sum of columns (A) through (G). The total for full-time enrollment shown in item 7 should match the total shown in item 5; similarly, the part-time total shown in item 7 should equal the total in item 6.

The following racial/ethnic designations are those defined by the Office of Civil Rights:

U.S. CITIZENS: columns (A) through (E):

Black, non-Hispanic, column (A): Report persons having origins in any of the black racial groups (except those of Hispanic origin).

American Indian or Alaskan Native, column (B): Report persons having origins in any of the original peoples of North America.

Asian or Pacific Islander, column (C): Report persons having origins in any of the original peoples of the Far East, Southeast Asia, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic, column (D): Report persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic, column (E): Report persons having origins in any of the original peoples of Europe, North Africa, the Middle East or the Indian subcontinent, except those of Hispanic origin.

OTHER AND UNKNOWN, column (F): If department records are not complete as to racial/ethnic origin of some graduate students, please report in column (F) those students with U.S. citizenship whose origins are not listed in item 7, as well as those whose origins are unknown.

FOREIGN, column (G): Please report all foreign students, whether nonresident alien or holding a permanent visa, in column (G). A *foreign* graduate student is defined as an individual who has not attained U.S. citizenship. Do not include native residents of a U.S. possession, such as American Samoa. Applicants for U.S. citizenship are to be considered as foreign until the date their citizenship becomes effective.

POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF, item 8: Include as **postdoctorates** those individuals with science or engineering Ph.D.'s, M.D.'s, D.D.S.'s, or D.V.M.'s (including foreign degrees that are equivalent to U.S. doctorates) who devote *their primary effort to research* activities or study in the department under temporary appointments carrying no academic rank. Such appointments are generally for a *specific time period.* They may contribute to the academic program through seminars, lectures, or working with graduate students. Their postdoctoral activities provide additional training for them. **Exclude** clinical fellows and those with appointments in residency training programs in medical and health professions, unless *research training* under the supervision of a *senior mentor* is the *primary purpose* of the appointment.

On line (1), under columns (A) and (B), enter the number of fellows and trainees receiving support under Federal fellowships and/or training grants. Under column (C) enter the number of postdoctorates who are receiving federally supported research grants. Those remaining postdoctoral appointees receiving non-Federal support should be entered under column (D). Of the *total* in column (E), enter in column (F) the number of postdoctorates who are foreign.

Under **other nonfaculty doctoral research staff,** column (G), report all doctoral scientists and engineers who are principally involved in research activities but who are considered *neither* postdoctoral appointees nor members of the *regular* faculty. In column (H), report the total of columns (E) and (G).

On line 2, report the number of women in each category. On line 3 (optional) report those postdoctorates and nonfaculty doctoral research staff who hold first professional medical degrees (M.D., D.D.S., D.V.M., etc.). Please note that in each column, data on lines 2 and 3 should not exceed the total on line 1.

NSF Form 812, Nov. 82

Form Approved
OMB No. 3145-0062
Appr. exp. 12/31/83

OPTIONAL

SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES, FALL 1982

INSTRUCTIONS

Please complete items 9, 10, and 11 with regard to FULL-TIME SCIENCE/ENGINEERING (S/E) FACULTY only. Include all full-time S/E faculty in your department regardless of whether they instruct graduate or undergraduate students. Please complete item 12 for FULL-TIME S/E NONFACULTY research doctorates only.

9) *RANK AND TENURE STATUS OF FULL-TIME S/E FACULTY.* What academic ranks are held by the full-time S/E faculty of this department? What is their tenure status?

Full-time S/E faculty. Persons with regular full-time appointments. Include all ranks from instructor to professor. Include full-time members of your department who are on sabbatical leave away from your institution. Persons with joint appointments who work part of their time in another department should be treated as follows: Those working more than one-half their time in this department should be included here; those working less than one-half time in this department should be included in the other department; if they work exactly half time in each, please consult with the chairperson of the other department as to which one will include the appointee. Please DO NOT include the following as full-time faculty: Visiting professors, post-doctorates, research associates, graduate assistants, or others who are not regular FULL-TIME S/E FACULTY in this department.

9. Rank and tenure status of full-time S/E faculty, fall 1982	Academic rank	Total (A)	Tenured (B)	Non-tenured (C)	Of those in column (C) how many are in tenure track? (D)
	(1) Professor				
	(2) Associate professor				
	(3) Assistant professor				
	(4) Other ranks				
☐ Check here if this department has no full-time S/E faculty.	(5) Non-ranked				
	(6) Total full-time S/E faculty				

10) *APPOINTMENTS.* How many full-time S/E faculty did your department appoint for service to begin during the academic year 1981/82? How many of these new appointees held full-time faculty or staff appointments in another academic institution immediately prior to their joining your department? What tenure status were they given in your department at the time of their appointments? Note that line (2), columns (B) & (C) refer to the status of these individuals at your institution.

D. Full-time S/E faculty appointments during academic year 1981/82		Appointments	Total full-time S/E faculty appointed (A)	Tenure status as of date of appointment	
				Tenured (B)	Non-tenured (C)
	(1)	Total appointments			
	(2)	Of those in line (1) above, how many joined your department from full-time faculty or staff positions in another academic institution? (Do not report transfers within your institution).			

11) *DEPARTURES.* How many members of this department who held full-time S/E faculty appointments in September 1981 left the department between September 1, 1981, and August 31, 1982, for one of the reasons listed below? *Please enter the number for each of the following categories. (Count each person only once; in case of multiple reasons, choose the one in your opinion that was most important.)*

11. Full-time S/E faculty departing during academic year 1981/82		Reason for leaving	Total full-time S/E faculty leaving (A)	Tenure status of full-time S/E faculty leaving	
				Tenured (B)	Nontenured (C)
	(1)	Retirement, illness, or death			
	(2)	Voluntary resignation for another academic position			
	(3)	Voluntary resignation for a position in business or industry			
	( )	Voluntary resignation for other reasons			
	( )	Failure to receive tenure			
	( )	Involuntary resignation for other reasons			
	( )	Total departures			

12) *NONFACULTY S/E DOCTORAL RESEARCH STAFF.* How many full-time, nonfaculty S/E research doctorates are employed in this department? Please enter the number of people in each category shown. Only persons holding full-time appointments are to be included.

Full-time nonfaculty S/E research doctorate. Persons employed full time by the department in fall 1982 in a professional capacity specifically for research activities, who hold doctorates on the date this survey form is filled out, who do not have a faculty appointment, and who are not postdoctorates.

12. Full-time nonfaculty S/E doctoral research staff, fall 1982	TOTAL (see item 8, column (G), line 1) (A)	Number receiving doctorates before fall 1975 (B)	Number receiving doctorates in fall 1975 or later (C)

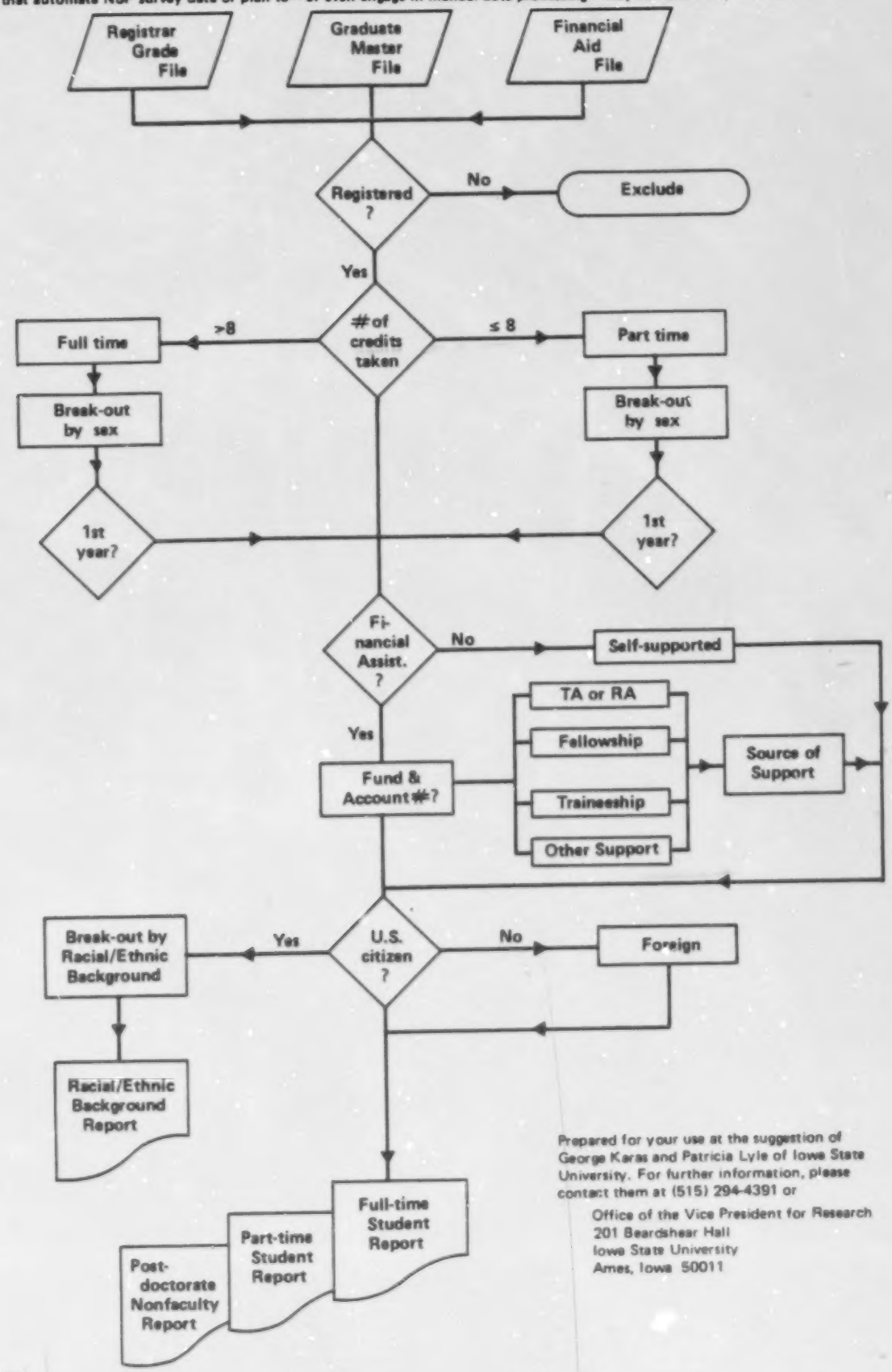
Department name _____

Institution name _____

FLOW CHART

NSF SURVEY OF GRADUATE SCIENCE STUDENTS AND POST DOCTORATES

Institutions that automate NSF survey data or plan to—or even engage in manual data processing—may be assisted by this chart.



Prepared for your use at the suggestion of George Karas and Patricia Lyle of Iowa State University. For further information, please contact them at (515) 294-4391 or

Office of the Vice President for Research
201 Beardshear Hall
Iowa State University
Ames, Iowa 50011

NSF FORM 812A (11/81)
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SURVEY OF GRADUATE SCIENCE AND ENGINEERING STUDENTS AND POSTDOCTORATES

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes is used to categorize science and engineering departments in this Survey. Representative department names are shown under each of the discipline codes.

ENGINEERING

101 AEROSPACE ENGINEERING
- 14.02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGINEERING

102 AGRICULTURAL ENGINEERING
- 14.03 AGRICULTURAL ENGINEERING

103 BIOMEDICAL ENGINEERING
- 14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING

104 CHEMICAL ENGINEERING
- 03.0408 PULP AND PAPER PRODUCTION
- 03.0509 WOOD SCIENCE
- 14.07 CHEMICAL ENGINEERING

105 CIVIL ENGINEERING
- 04.02 ARCHITECTURE
- 14.04 ARCHITECTURAL ENGINEERING
- 14.08 CIVIL ENGINEERING
- 14.14 ENVIRONMENTAL HEALTH ENGINEERING

106 ELECTRICAL ENGINEERING
- 14.09 COMPUTER ENGINEERING
- 14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING

107 ENGINEERING SCIENCE
- 14.12 ENGINEERING PHYSICS
- 14.13 ENGINEERING SCIENCE

108 INDUSTRIAL ENGINEERING/MANAGEMENT SCIENCE
- 14.17 INDUSTRIAL ENGINEERING
- 14.27 SYSTEMS ENGINEERING
- 30.06 SYSTEMS SCIENCE

109 MECHANICAL ENGINEERING
- 14.11 ENGINEERING MECHANICS
- 14.19 MECHANICAL ENGINEERING

110 METALLURGICAL AND MATERIALS ENGINEERING
- 14.06 CERAMIC ENGINEERING
- 14.18 MATERIALS ENGINEERING
- 14.20 METALLURGICAL ENGINEERING
- 40.0701 METALLURGY

111 MINING ENGINEERING
- 14.15 GEOLOGICAL ENGINEERING
- 14.16 GEOPHYSICAL ENGINEERING
- 14.21 MINING AND MINERAL ENGINEERING

112 NUCLEAR ENGINEERING
- 14.23 NUCLEAR ENGINEERING

113 PETROLEUM ENGINEERING
- 14.25 PETROLEUM ENGINEERING

114 ENGINEERING, N.E.C.
- 14.01 ENGINEERING, GENERAL
- 14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING
- 14.24 OCEAN ENGINEERING
- 14.28 TEXTILE ENGINEERING
- 14.99 ENGINEERING, OTHER
- 19.0901 TEXTILE AND CLOTHING
- 30.03 ENGINEERING AND OTHER DISCIPLINES

PHYSICAL SCIENCES

201 ASTRONOMY
- 40.02 ASTRONOMY
- 40.03 ASTROPHYSICS
- 40.09 PLANETARY SCIENCE

202 CHEMISTRY
- 40.05 CHEMISTRY

203 PHYSICS
- 40.08 PHYSICS

204 PHYSICAL SCIENCES, N.E.C.
- 40.01 PHYSICAL SCIENCES, GENERAL
- 40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER
- 40.99 PHYSICAL SCIENCES, OTHER

ENVIRONMENTAL SCIENCES

301 ATMOSPHERIC SCIENCES
- 40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY

302 GEOSCIENCES
- 40.06 GEOLOGICAL SCIENCES

303 OCEANOGRAPHY
- 26.0607 MARINE BIOLOGY
- 40.0702 OCEANOGRAPHY

304 ENVIRONMENTAL SCIENCES, N.E.C.

MATHEMATICAL/COMPUTER SCIENCES

401 COMPUTER SCIENCE
- 06.12 MANAGEMENT INFORMATION SYSTEMS
- 11 COMPUTER AND INFORMATION SCIENCES, GENERAL

402 MATHEMATICS AND APPLIED MATHEMATICS
- 06.1302 OPERATIONS RESEARCH (QUANTITATIVE METHODS)
- 27.01 MATHEMATICS
- 27.03 APPLIED MATHEMATICS
- 27.04 PURE MATHEMATICS
- 27.99 MATHEMATICS, OTHER

403 STATISTICS
- 27.02 ACTUARIAL SCIENCES
- 27.05 STATISTICS

LIFE SCIENCES

501 AGRICULTURAL SCIENCES
- 01.03 AGRICULTURAL PRODUCTION
- 01.0303 AQUACULTURE
- 01.07 INTERNATIONAL AGRICULTURE
- 02 AGRICULTURAL SCIENCES
- 03 RENEWABLE NATURAL RESOURCES
- 04.06 LANDSCAPE ARCHITECTURE

601 ANATOMY
- 18.0201 CLINICAL ANATOMY
- 26.0601 ANATOMY

602 BIOCHEMISTRY
- 18.0202 CLINICAL BIOCHEMISTRY
- 26.02 BIOCHEMISTRY AND BIOPHYSICS

603 BIOLOGY
- 26.01 BIOLOGY, GENERAL
- 26.0604 EMBRYOLOGY

604 BIOMETRY AND EPIDEMIOLOGY
- 26.0602 BIOMETRICS AND BIOSTATISTICS
- 18.06 EPIDEMIOLOGY

605 BIOPHYSICS

606 BOTANY
- 26.03 BOTANY

607 CELL BIOLOGY
- 26.04 CELL AND MOLECULAR BIOLOGY
- 26.0606 HISTOLOGY

608 ECOLOGY
- 26.0603 ECOLOGY

609 ENTOMOLOGY AND PARASITOLOGY
- 26.0610 PARASITOLOGY
- 26.0702 ENTOMOLOGY

610 GENETICS
- 26.0703 GENETICS, HUMAN AND ANIMAL

611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY
- 18.0203 CLINICAL MICROBIOLOGY
- 18.1002 ALLERGIES AND ENDOMOLOGY
- 18.1009 IMMUNOLOGY
- 26.05 MICROBIOLOGY
- 26.0302 BACTERIOLOGY

612 NUTRITION
- 19.05 FOOD SCIENCES AND HUMAN NUTRITION
- 20.0106 FOOD AND NUTRITION
- 26.0609 NUTRITIONAL SCIENCES

613 PATHOLOGY
- 18.0204 CLINICAL PATHOLOGY
- 18.1018 PATHOLOGY
- 26.0704 PATHOLOGY, HUMAN AND ANIMAL

614 PHARMACOLOGY
- 18.23 TOXICOLOGY (CLINICAL)
- 26.0612 TOXICOLOGY
- 26.0705 PHARMACOLOGY, HUMAN AND ANIMAL
- 42.14 PSYCHOPHARMACOLOGY

615 PHYSIOLOGY
- 18.0205 PHYSIOLOGY
- 26.0706 PHYSIOLOGY, HUMAN AND ANIMAL

616 ZOOLOGY
- 26.0701 ZOOLOGY
- 26.0799 ZOOLOGY, OTHER

617 BIOSCIENCES, N.E.C.
- 26.0611 RADIOBIOLOGY
- 26.0699 MISCELLANEOUS SPECIALIZED AREAS, LIFE SCIENCES, OTHER
- 26.99 LIFE SCIENCES, OTHER

701 ANESTHESIOLOGY
- 18.1003 ANESTHESIOLOGY

702 CARDIOLOGY

703 CANCER RESEARCH/ONCOLOGY

704 ENDOCRINOLOGY
- 26.0905 ENDOCRINOLOGY

705 GASTROENTEROLOGY

706 HEMATOLOGY
- 18.08 HEMATOLOGY

707 NEUROLOGY
- 18.1024 NEUROLOGY
- 26.0908 NEUROSCIENCES

708 OBSTETRICS AND GYNECOLOGY
- 18.1013 OBSTETRICS AND GYNECOLOGY

709 OPHTHALMOLOGY
- 18.1014 OPHTHALMOLOGY
- 18.12 OPTOMETRY

710 OTORHINOLARYNGOLOGY
- 18.1017 OTORHINOLARYNGOLOGY/OTOLARYNGOLOGY

711 PEDIATRICS
- 18.1019 PEDIATRICS
- 20.0102 CHILD DEVELOPMENT, CARE, AND GUIDANCE

712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH
- 18.1007 FAMILY PRACTICE
- 18.1022 PREVENTIVE MEDICINE

713 PSYCHIATRY
- 18.1023 PSYCHIATRY
- 18.1106 PSYCHIATRY/MENTAL HEALTH

714 PULMONARY DISEASE

715 RADIOLOGY
- 18.1012 NUCLEAR MEDICINE
- 18.1025 RADIOLOGY

716 SURGERY
- 18.1004 COLON AND RECTAL SURGERY
- 18.1011 NEUROLOGICAL SURGERY
- 18.1018 ORTHOPEDIC
- 18.1021 PLASTIC SURGERY
- 18.1026 SURGERY
- 18.1027 THORACIC SURGERY

717 CLINICAL MEDICINE, N.E.C.
- 18.0299 BASIC CLINICAL HEALTH SCIENCES, OTHER
- 18.1001 MEDICINE, GENERAL
- 18.1005 DERMATOLOGY
- 18.1008 GERIATRICS
- 18.1010 INTERNAL MEDICINE
- 18.1099 MEDICINE, OTHER
- 18.13 OSTEOPATHIC MEDICINE
- 18.15 PODIATRY
- 18.1020 PHYSICAL MEDICINE AND REHABILITATION
- 18.1028 UROLOGY
- 30.01 BIOLOGICAL AND PHYSICAL SCIENCES

718 DENTAL SCIENCES
- 18.04 DENTISTRY
- 18.1015 ORTHODONTIC SURGERY

719 NURSING
- 18.11 NURSING

720 PHARMACEUTICAL SCIENCES
- 18.14 PHARMACY

721 VETERINARY SCIENCES
- 18.24 VETERINARY MEDICINE

722 HEALTH RELATED, N.E.C.
- 17.0607 OCCUPATIONAL THERAPY
- 17.0813 PHYSICAL THERAPY
- 17.0899 REHABILITATION SERVICES, OTHER
- 17.99 ALLIED HEALTH, OTHER
- 18.07 HEALTH SCIENCES ADMINISTRATION
- 18.09 MEDICAL LABORATORY
- 18.22 PUBLIC HEALTH LABORATORY SCIENCE
- 18.99 HEALTH SCIENCES, OTHER

723 SPEECH PATHOLOGY AND AUDIOLOGY
- 17.0821 SPEECH-LANGUAGE PATHOLOGY/AUDIOLOGY
- 18.01 AUDIOLOGY AND SPEECH PATHOLOGY

PSYCHOLOGY

801 PSYCHOLOGY
- 13.08 SCHOOL PSYCHOLOGY
- 17.0801 ART THERAPY
- 42 PSYCHOLOGY

SOCIAL SCIENCES

901 AGRICULTURAL ECONOMICS
- 01.0103 AGRICULTURAL ECONOMICS

902 ANTHROPOLOGY
- 45.02 ANTHROPOLOGY
- 45.03 ARCHEOLOGY

903 ECONOMICS (EXCEPT AGRICULTURAL)
- 06.05 BUSINESS ECONOMICS
- 45.06 ECONOMICS

904 GEOGRAPHY
- 14.26 SURVEYING AND MAPPING SCIENCES
- 45.07 GEOGRAPHY

905 HISTORY AND PHILOSOPHY OF SCIENCE

906 LINGUISTICS
- 42.12 PSYCHOLINGUISTICS

907 POLITICAL SCIENCE
- 44.0[illegible] PUBLIC AFFAIRS, GENERAL
- 44.[illegible] INTERNATIONAL PUBLIC SERVICE
- 44.[illegible] PUBLIC ADMINISTRATION
- 44.05 PUBLIC POLICY STUDIES
- 44.99 PUBLIC AFFAIRS, GENERAL
- 45.09 INTERNATIONAL RELATIONS
- 45.10 POLITICAL SCIENCE AND GOVERNMENT

908 SOCIOLOGY
- 18.16 POPULATION AND FAMILY PLANNING
- 45.05 DEMOGRAPHY
- 45.11 SOCIOLOGY

909 SOCIOLOGY AND ANTHROPOLOGY

910 SOCIAL SCIENCES, N.E.C.
- 04.03 CITY, COMMUNITY AND REGIONAL PLANNING
- 05 AREAS AND ETHNIC STUDIES
- 06.06 HUMAN RESOURCES DEVELOPMENT
- 06.15 ORGANIZATIONAL BEHAVIOR
- 43.01 CRIMINAL JUSTICE
- 44.02 COMMUNITY SERVICES
- 44.07 SOCIAL WORK
- 45.01 SOCIAL SCIENCES, GENERAL
- 45.04 CRIMINOLOGY
- 45.12 URBAN STUDIES
- 45.99 SOCIAL SCIENCES, OTHER

TABLE IV-A-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 9776

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	204	681	248	1,309	1,861	9,836	3,799	3,701		21,639
GRADUATE TRAINEESHIPS (2)	34	4,824	4,357	91	1,433	3,619	313	890		15,561
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3,476	5,353	520	7,775	11,373	17,897	609	6,291		53,294
GRADUATE TEACHING ASSISTANTSHIPS (4)		49	61	27	301	57,893		489		58,820
OTHER TYPES OF SUPPORT (5)	2,349	241	190	116	1,928	8,500	4,476	4,061	84,784	106,645
FULL-TIME TOTAL (6)	6,063	11,148	5,376	9,318	16,896	97,745	9,197	15,432	84,784	255,959
FULL-TIME WOMEN (7)	552	4,347	4,046	1,680	4,713	32,641	1,364	3,824	35,522	88,689
FIRST-YEAR TOTAL (8)										84,750
FIRST-YEAR WOMEN (9)										32,930

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	143,723
WOMEN (2)	58,157

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	7,219	724	5,663	5,507	159,351	19,468	58,027	255,959
PART-TIME (2)	6,083	470	3,660	3,833	102,299	6,875	10,503	143,723

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES							
	SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	2,214	2,466	9,383	5,709	19,772	7,340	4,048	23,820
WOMEN (2)	542	743	1,916	1,278	4,479	1,076	853	5,332
WITH MD, DDS, OR DVM DEGREES (3)	323	631	279	1,202	2,435	596	145	2,580

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1210

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	94	9	22	253	333	1,663	943	1,405		4,722
GRADUATE TRAINEESHIPS (2)	22	78	19	2	146	279	56	211		813
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,087	311	51	2,293	3,867	3,325	105	2,691		14,730
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	3	6	31	9,081		122		9,243
OTHER TYPES OF SUPPORT (5)	1,262	5	7	23	266	1,248	1,436	933	15,888	21,068
FULL-TIME TOTAL (6)	3,465	403	102	2,577	4,643	15,596	2,540	5,362	15,888	50,576
FULL-TIME WOMEN (7)	171	65	18	202	508	1,834	144	583	1,936	5,461
FIRST-YEAR TOTAL (8)										18,374
FIRST-YEAR WOMEN (9)										2,287

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	36,213
WOMEN (2)	3,960

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	543	77	1,425	605	21,796	4,582	21,548	50,576
PART-TIME (2)	713	100	1,355	541	23,276	6,383	3,845	36,213

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES							
	SOURCE OF SUPPORT: FEDERAL				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	FELLOWSHIPS (A)	TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	41	28	606	308	983	659	671	1,654
WOMEN (2)	2	4	44	35	85	37	33	118
WITH MD, DDS, OR DVM DEGREES (3)	0	5	1	2	8	1	8	16

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 673

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	4	20	1	215	86	959	222	423		1,930
GRADUATE TRAINEESHIPS (2)	1	108	3	16	31	170	13	53		395
GRADUATE RESEARCH ASSISTANTSHIPS (3)	644	1,259	77	2,869	2,217	996	95	623		8,780
GRADUATE TEACHING ASSISTANTSHIPS (4)		6	1	12	27	10,615		80		10,741
OTHER TYPES OF SUPPORT (5)	59	2	1	7	19	281	165	152	1,539	2,225
FULL-TIME TOTAL (6)	708	1,435	83	3,119	2,380	13,021	455	1,331	1,539	24,071
FULL-TIME WOMEN (7)	82	362	15	419	317	2,639	65	230	275	4,404
FIRST-YEAR TOTAL (8)										6,191
FIRST-YEAR WOMEN (9)										1,441

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,134
WOMEN (2)	1,018

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	417	32	533	387	14,762	1,452	6,488	24,071
PART-TIME (2)	136	18	165	103	2,929	318	459	4,134

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	232	37	3,340	688	4,297	2,374	810	5,107
WOMEN (2)	29	6	401	80	516	234	117	633
WITH MD, DDS, OR DVM DEGREES (3)	0	0	11	0	11	3	2	13

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 340

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	2	1	0	82	106	299	129	233		852
GRADUATE TRAINEESHIPS (2)	0	11	30	11	31	114	23	61		281
GRADUATE RESEARCH ASSISTANTSHIPS (3)	170	26	4	1,094	1,026	618	32	364		3,334
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	1	9	2,797		12		2,819
OTHER TYPES OF SUPPORT (5)	127	4	1	5	109	401	193	150	3,055	4,045
FULL-TIME TOTAL (6)	299	42	35	1,193	1,281	4,229	377	820	3,055	11,331
FULL-TIME WOMEN (7)	32	12	13	284	307	1,183	39	189	747	2,806
FIRST-YEAR TOTAL (8)										3,644
FIRST-YEAR WOMEN (9)										995

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	3,585
WOMEN (2)	931

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	72	18	133	128	8,366	996	1,618	11,331
PART-TIME (2)	25	6	64	57	2,910	315	208	3,585

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	11	1	243	84	339	122	238	577
WOMEN (2)	2	0	32	17	51	15	21	72
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 627

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	9	2	0	98	36	502	266	174		1,087
GRADUATE TRAINEESHIPS (2)	0	9	1	11	3	155	6	15		200
GRADUATE RESEARCH ASSISTANTSHIPS (3)	364	55	18	501	208	779	9	146		2,080
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	2	45	8,040		70		8,157
OTHER TYPES OF SUPPORT (5)	474	1	0	7	140	418	298	359	6,829	8,526
FULL-TIME TOTAL (6)	847	67	19	619	432	9,894	579	764	6,829	20,050
FULL-TIME WOMEN (7)	61	9	8	105	80	2,584	117	171	1,955	5,090
FIRST-YEAR TOTAL (8)										7,057
FIRST-YEAR WOMEN (9)										1,985

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	16,971
WOMEN (2)	5,339

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	363	43	663	280	9,924	1,743	7,034	20,050
PART-TIME (2)	504	39	717	259	11,811	1,831	1,810	16,971

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	24	8	39	170	241	138	129	370
WOMEN (2)	1	0	8	16	25	9	11	36
WITH MD, DDS, OR DVM DEGREES (3)	0	3	0	1	4	1	2	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 4817

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	33	561	81	385	461	2,374	978	767		5,640
GRADUATE TRAINEESHIPS (2)	8	3,965	3,554	38	893	1,428	158	203		10,247
GRADUATE RESEARCH ASSISTANTSHIPS (3)	94	3,305	166	763	3,058	6,701	375	1,939		16,401
GRADUATE TEACHING ASSISTANTSHIPS (4)		42	43	4	80	12,665		138		12,972
OTHER TYPES OF SUPPORT (5)	193	198	119	56	462	2,102	1,224	807	20,255	25,416
FULL-TIME TOTAL (6)	328	8,071	3,963	1,246	4,954	25,270	2,735	3,854	20,255	70,676
FULL-TIME WOMEN (7)	118	3,239	3,305	436	2,127	10,792	496	1,418	11,613	33,544
FIRST-YEAR TOTAL (8)										23,142
FIRST-YEAR WOMEN (9)										12,991

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	32,842
WOMEN (2)	21,984

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,728	192	1,627	1,341	51,976	4,021	9,791	70,676
PART-TIME (2)	1,250	98	602	605	26,463	2,291	1,533	32,842

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,770	2,232	4,918	4,181	13,101	3,881	1,913	15,014
WOMEN (2)	454	654	1,343	1,017	3,468	732	570	4,038
WITH MD, DDS, OR DVM DEGREES (3)	322	623	262	1,199	2,406	591	132	2,538

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 518

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	11	31	53	94	81	805	41	122		1,238
GRADUATE TRAINEESHIPS (2)	2	422	362	1	85	725	2	203		1,802
GRADUATE RESEARCH ASSISTANTSHIPS (3)	89	286	165	111	282	1,603	2	198		2,736
GRADUATE TEACHING ASSISTANTSHIPS (4)		1	0	0	58	4,878		21		4,958
OTHER TYPES OF SUPPORT (5)	26	8	0	3	256	1,396	37	773	12,650	15,149
FULL-TIME TOTAL (6)	128	748	580	209	762	9,407	82	1,317	12,650	25,883
FULL-TIME WOMEN (7)	49	409	285	104	378	5,149	44	618	7,580	14,616
FIRST-YEAR TOTAL (8)										7,603
FIRST-YEAR WOMEN (9)										4,648

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	14,322
WOMEN (2)	8,598

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	1,030	75	321	1,038	19,236	3,089	1,094	25,883
PART-TIME (2)	625	61	121	449	11,154	1,595	317	14,322

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FEDERAL: FELLOW-SHIPS (A)	FEDERAL: TRAINEE-SHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	99	107	187	130	523	65	150	673
WOMEN (2)	41	50	68	60	219	23	61	280
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	0	5	0	1	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-A-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT ALL GRADUATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1591

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	51	57	91	182	758	3,234	1,220	577		6,170
GRADUATE TRAINEESHIPS (2)	1	231	388	12	244	748	55	144		1,823
GRADUATE RESEARCH ASSISTANTSHIPS (3)	28	71	39	144	715	3,875	31	330		5,233
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	14	2	51	9,817		46		9,930
OTHER TYPES OF SUPPORT (5)	208	23	62	15	676	2,654	1,123	887	24,568	30,216
FULL-TIME TOTAL (6)	288	382	594	355	2,444	20,328	2,429	1,984	24,568	53,372
FULL-TIME WOMEN (7)	39	251	402	130	996	8,460	459	615	11,416	22,768
FIRST-YEAR TOTAL (8)										18,739
FIRST-YEAR WOMEN (9)										8,583

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	35,656
WOMEN (2)	16,327

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	3,066	287	961	1,728	33,291	3,585	10,454	53,372
PART-TIME (2)	2,830	148	636	1,813	23,756	4,142	2,331	35,656

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FEDERAL: FELLOW-SHIPS (A)	FEDERAL: TRAINEE-SHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	37	53	50	148	288	101	137	425
WOMEN (2)	13	29	20	53	115	26	40	155
WITH MD, DDS, OR DVM DEGREES (3)	1	0	0	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 8346

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	201	677	248	1,293	1,781	9,545	3,731	3,654		21,150
GRADUATE TRAINEESHIPS (2)	33	4,752	4,202	73	1,284	3,488	299	875		15,006
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3,467	5,281	515	7,743	11,172	17,111	602	6,203		52,094
GRADUATE TEACHING ASSISTANTSHIPS (4)		49	53	24	256	55,398		441		56,221
OTHER TYPES OF SUPPORT (5)	2,253	235	166	86	1,641	7,936	4,205	3,786	72,917	93,225
FULL-TIME TOTAL (6)	5,954	10,994	5,184	9,219	16,134	93,478	8,837	14,959	72,917	237,676
FULL-TIME WOMEN (7)	539	4,261	3,900	1,649	4,380	30,799	1,307	3,646	29,484	79,965
FIRST-YEAR TOTAL (8)										76,782
FIRST-YEAR WOMEN (9)										28,893

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	109,738
WOMEN (2)	42,773

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	5,968	625	5,246	5,062	148,350	16,982	55,443	237,676
PART-TIME (2)	4,281	327	2,788	2,986	79,532	11,262	8,562	109,738

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	2,212	2,466	9,363	5,692	19,733	7,328	4,040	23,773
WOMEN (2)	560	743	1,908	1,273	4,464	1,072	852	5,316
WITH MD, DDS, OR DVM DEGREES (3)	321	631	279	1,202	2,433	596	145	2,578

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1064

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	94	9	22	252	329	1,615	941	1,391		4,653
GRADUATE TRAINEESHIPS (2)	22	78	16	2	146	276	48	204		792
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,079	311	51	2,288	3,840	3,280	104	2,673		14,626
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	2	6	31	8,833		117		8,989
OTHER TYPES OF SUPPORT (5)	1,234	5	7	23	253	1,192	1,342	894	15,096	20,046
FULL-TIME TOTAL (6)	3,429	403	98	2,571	4,599	15,196	2,435	5,279	15,096	49,106
FULL-TIME WOMEN (7)	171	65	17	202	502	1,787	141	571	1,857	5,313
FIRST-YEAR TOTAL (8)										17,796
FIRST-YEAR WOMEN (9)										2,226

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	31,356
WOMEN (2)	3,477

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	500	72	1,345	580	21,306	4,345	20,958	49,106
PART-TIME (2)	599	82	1,112	466	20,062	5,327	3,308	31,356

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	41	28	602	308	979	657	671	1,650
WOMEN (2)	2	4	42	35	83	36	33	116
WITH MD, DDS, OR DVM DEGREES (3)	0	5	1	2	8	1	8	16

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 520

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
		HHS								
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	4	20	1	214	84	951	218	415		1,907
GRADUATE TRAINEESHIPS (2)	0	96	3	13	30	161	13	53		369
GRADUATE RESEARCH ASSISTANTSHIPS (3)	644	1,284	77	2,861	2,201	955	55	618		8,695
GRADUATE TEACHING ASSISTANTSHIPS (4)		6	0	12	18	10,283		69		10,388
OTHER TYPES OF SUPPORT (5)	59	2	1	7	19	246	159	144	1,369	2,006
FULL-TIME TOTAL (6)	707	1,408	82	3,107	2,352	12,596	445	1,299	1,369	23,365
FULL-TIME WOMEN (7)	81	349	15	419	312	2,527	62	222	220	4,207
FIRST-YEAR TOTAL (8)										5,906
FIRST-YEAR WOMEN (9)										1,344

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	3,153
WOMEN (2)	715

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	339	29	503	376	14,437	1,378	6,303	23,365
PART-TIME (2)	95	12	126	86	2,306	184	344	3,153

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	232	37	3,329	682	4,280	2,366	805	5,085
WOMEN (2)	29	6	397	79	511	232	117	628
WITH MD, DDS, OR DVM DEGREES (3)	0	0	11	0	11	3	2	13

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 283

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
		HHS								
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	2	1	0	81	104	293	128	233		842
GRADUATE TRAINEESHIPS (2)	0	11	30	11	29	111	23	61		276
GRADUATE RESEARCH ASSISTANTSHIPS (3)	170	26	4	1,090	996	589	32	351		3,258
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	8	2,685		12		2,705
OTHER TYPES OF SUPPORT (5)	127	0	1	5	108	392	190	137	2,706	3,666
FULL-TIME TOTAL (6)	299	38	35	1,187	1,245	4,070	373	794	2,706	10,747
FULL-TIME WOMEN (7)	32	11	13	283	300	1,127	38	181	651	2,636
FIRST-YEAR TOTAL (8)										3,394
FIRST-YEAR WOMEN (9)										911

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,722
WOMEN (2)	711

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	57	15	124	110	7,954	914	1,573	10,747
PART-TIME (2)	12	3	40	42	2,282	162	181	2,722

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)		
	FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	11	1	242	80	334	121	238	572
WOMEN (2)	2	0	31	16	49	14	21	70
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 469

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	9	2	0	98	30	489	260	172		1,060
GRADUATE TRAINEESHIPS (2)	0	9	0	10	3	137	6	15		180
GRADUATE RESEARCH ASSISTANTSHIPS (3)	364	55	18	499	206	727	9	139		2,017
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	1	41	7,691		55		7,788
OTHER TYPES OF SUPPORT (5)	443	1	0	7	70	380	247	303	5,685	7,136
FULL-TIME TOTAL (6)	816	67	18	615	350	9,424	522	684	5,685	18,181
FULL-TIME WOMEN (7)	58	9	8	104	58	2,407	100	153	1,628	4,525
FIRST-YEAR TOTAL (8)										6,338
FIRST-YEAR WOMEN (9)										1,760

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	12,247
WOMEN (2)	3,715

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	253	30	557	250	9,101	1,508	6,482	18,181
PART-TIME (2)	348	24	491	171	8,674	1,190	1,349	12,247

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	24	8	39	169	240	138	129	369
WOMEN (2)	1	0	8	16	25	9	11	36
WITH MD, DDS, OR DVM DEGREES (3)	0	3	0	1	4	1	2	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 4461

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	30	557	81	372	451	2,303	968	762		5,524
GRADUATE TRAINEESHIPS (2)	8	3,936	3,420	26	793	1,382	154	203		9,922
GRADUATE RESEARCH ASSISTANTSHIPS (3)	93	3,255	165	753	2,970	6,467	374	1,901		15,978
GRADUATE TEACHING ASSISTANTSHIPS (4)		42	38	3	67	11,881		123		12,154
OTHER TYPES OF SUPPORT (5)	191	196	114	28	394	1,941	1,190	733	17,729	22,516
FULL-TIME TOTAL (6)	322	7,986	3,818	1,182	4,675	23,974	2,686	3,722	17,729	66,094
FULL-TIME WOMEN (7)	116	3,195	3,185	410	1,964	10,122	481	1,338	10,017	30,828
FIRST-YEAR TOTAL (8)										21,118
FIRST-YEAR WOMEN (9)										11,669

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	25,250
WOMEN (2)	17,041

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,431	171	1,567	1,253	48,760	3,565	9,347	66,094
PART-TIME (2)	866	67	474	438	20,839	1,314	1,252	25,250

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,768	2,232	4,914	4,176	13,090	3,880	1,911	15,001
WOMEN (2)	452	654	1,342	1,015	3,463	732	570	4,033
WITH MD, DDS, OR DVM DEGREES (3)	320	623	262	1,199	2,404	591	132	2,536

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 330

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	11	31	53	94	81	740	41	122		1,173
GRADUATE TRAINEESHIPS (2)	2	406	362	1	85	693	2	203		1,754
GRADUATE RESEARCH ASSISTANTSHIPS (3)	89	279	165	109	261	1,419	2	197		2,521
GRADUATE TEACHING ASSISTANTSHIPS (4)		1	0	0	45	4,507		21		4,574
OTHER TYPES OF SUPPORT (5)	12	8	0	3	191	1,242	28	763	8,875	11,122
FULL-TIME TOTAL (6)	114	725	580	207	663	8,601	73	1,306	8,875	21,144
FULL-TIME WOMEN (7)	45	392	285	103	340	4,653	38	611	5,097	11,564
FIRST-YEAR TOTAL (8)										5,502
FIRST-YEAR WOMEN (9)										3,304

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	7,929
WOMEN (2)	4,603

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	801	53	276	944	15,604	2,568	898	21,144
PART-TIME (2)	328	30	77	311	6,358	606	219	7,929

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	99	107	187	130	523	65	150	673
WOMEN (2)	41	50	68	60	219	23	61	280
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	0	5	0	1	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1239

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	51	57	91	182	702	3,154	1,175	559		5,971
GRADUATE TRAINEESHIPS (2)	1	216	371	10	198	728	53	136		1,713
GRADUATE RESEARCH ASSISTANTSHIPS (3)	28	71	35	143	698	3,674	26	324		4,999
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	13	3	46	9,518		44		9,623
OTHER TYPES OF SUPPORT (5)	187	23	43	13	606	2,543	1,049	812	21,457	26,733
FULL-TIME TOTAL (6)	267	367	553	350	2,250	19,617	2,303	1,875	21,457	49,039
FULL-TIME WOMEN (7)	36	240	377	128	904	8,176	447	570	10,014	20,892
FIRST-YEAR TOTAL (8)										14,728
FIRST-YEAR WOMEN (9)										7,679

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	27,081
WOMEN (2)	12,511

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	2,587	255	874	1,549	31,188	2,704	9,882	49,039
PART-TIME (2)	2,033	109	468	1,472	18,611	2,479	1,909	27,081

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	37	53	50	147	287	101	136	423
WOMEN (2)	13	29	20	52	114	26	39	153
WITH MD, DDS, OR DVM DEGREES (3)	1	0	0	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-9. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 6420

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	182	584	205	1,272	1,382	8,792	3,524	3,398		19,339
GRADUATE TRAINEESHIPS (2)	25	4,483	2,645	45	902	2,935	246	771		12,052
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3,406	5,192	497	7,617	10,684	14,911	589	5,918		48,814
GRADUATE TEACHING ASSISTANTSHIPS (4)		39	35	23	218	49,113		356		49,784
OTHER TYPES OF SUPPORT (5)	1,197	207	143	78	1,372	6,219	3,715	3,065	54,743	70,739
FULL-TIME TOTAL (6)	4,810	10,505	3,525	9,035	14,558	81,970	8,074	13,508	54,743	200,728
FULL-TIME WOMEN (7)	440	3,937	2,430	1,602	3,636	25,622	1,168	3,141	20,089	62,065
FIRST-YEAR TOTAL (8)										60,302
FIRST-YEAR WOMEN (9)										20,598

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	71,754
WOMEN (2)	25,314

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	4,363	477	4,447	3,435	124,670	13,355	49,981	200,728
PART-TIME (2)	2,516	182	1,920	1,566	50,919	7,781	6,870	71,754

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2,164	2,398	9,190	5,342	19,094	7,096	3,943	23,037
WOMEN (2)	537	727	1,872	1,236	4,372	1,046	837	5,209
WITH MD, DDS, OR DVM DEGREES (3)	318	599	270	1,154	2,341	578	142	2,483

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-10. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 805

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	89	9	8	248	294	1,569	913	1,361		4,491
GRADUATE TRAINEESHIPS (2)	21	78	16	2	126	271	29	200		743
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,039	299	48	2,231	3,704	2,992	101	2,574		13,988
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	2	6	27	7,945		105		8,085
OTHER TYPES OF SUPPORT (5)	697	5	7	22	210	920	1,208	666	13,274	17,009
FULL-TIME TOTAL (6)	2,846	391	81	2,509	4,361	13,697	2,251	4,906	13,274	44,316
FULL-TIME WOMEN (7)	161	57	11	197	457	1,538	128	542	1,495	4,586
FIRST-YEAR TOTAL (8)										15,678
FIRST-YEAR WOMEN (9)										1,888

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	23,425
WOMEN (2)	2,580

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	423	66	1,173	463	19,282	3,619	19,290	44,316
PART-TIME (2)	352	58	803	243	14,859	4,298	2,812	23,425

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	34	16	577	302	929	639	637	1,566
WOMEN (2)	2	2	39	33	76	34	31	107
WITH MD, DDS, OR DVM DEGREES (3)	0	3	1	2	6	1	8	14

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-11. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 397

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	3	20	1	212	83	934	716	406		1,875
GRADUATE TRAINEESHIPS (2)	0	91	3	7	29	160	13	34		337
GRADUATE RESEARCH ASSISTANTSHIPS (3)	640	1,275	77	2,852	2,188	906	55	611		8,604
GRADUATE TEACHING ASSISTANTSHIPS (4)		6	0	12	17	9,760		57		9,852
OTHER TYPES OF SUPPORT (5)	59	2	1	4	17	228	151	143	1,263	1,868
FULL-TIME TOTAL (6)	702	1,394	82	3,087	2,334	11,988	435	1,251	1,263	22,536
FULL-TIME WOMEN (7)	79	343	15	416	311	2,383	61	219	197	4,024
FIRST-YEAR TOTAL (8)										5,549
FIRST-YEAR WOMEN (9)										1,251

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,510
WOMEN (2)	550

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	315	24	483	314	14,009	1,341	6,050	22,536
PART-TIME (2)	73	8	97	35	1,852	155	290	2,510

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	230	37	3,281	659	4,207	2,315	796	5,003
WOMEN (2)	29	6	394	74	503	228	115	618
WITH MD, DDS, OR DVM DEGREES (3)	0	0	11	0	11	3	2	13

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-12. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 208

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	2	1	5	81	100	280	109	219		792
GRADUATE TRAINEESHIPS (2)	0	11	30	11	29	99	23	54		257
GRADUATE RESEARCH ASSISTANTSHIPS (3)	168	26	4	1,063	939	537	32	323		3,092
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	7	2,096		9		2,112
OTHER TYPES OF SUPPORT (5)	127	0	1	3	98	317	183	98	2,091	2,918
FULL-TIME TOTAL (6)	297	38	35	1,158	1,173	3,329	347	703	2,091	9,171
FULL-TIME WOMEN (7)	32	11	13	272	274	920	35	171	518	2,246
FIRST-YEAR TOTAL (8)										2,690
FIRST-YEAR WOMEN (9)										729

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,111
WOMEN (2)	545

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	43	13	120	102	6,696	780	1,497	9,171
PART-TIME (2)	11	2	34	40	1,752	119	153	2,111

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	11	1	238	79	329	116	234	563
WOMEN (2)	2	0	31	16	49	14	21	70
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-8-13. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 307

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	9	2	0	96	29	473	254	166		1,029
GRADUATE TRAINEESHIPS (2)	0	9	0	1	3	128	6	3		150
GRADUATE RESEARCH ASSISTANTSHIPS (3)	399	55	18	492	196	597	9	131		1,853
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	39	6,806		39		6,884
OTHER TYPES OF SUPPORT (5)	176	1	0	7	61	312	185	290	3,838	4,870
FULL-TIME TOTAL (6)	540	67	18	596	328	8,316	454	629	3,838	14,786
FULL-TIME WOMEN (7)	47	9	8	95	55	1,996	88	145	1,072	3,515
FIRST-YEAR TOTAL (8)										4,856
FIRST-YEAR WOMEN (9)										1,285

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	6,355
WOMEN (2)	1,832

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	178	23	384	140	7,598	1,042	5,421	14,786
PART-TIME (2)	110	8	239	52	4,420	613	913	6,355

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	24	6	38	101	169	77	129	298
WOMEN (2)	1	0	8	15	24	8	11	35
WITH MD, DDS, OR DVM DEGREES (3)	0	3	0	1	4	1	2	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-8-14. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 3731

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	17	489	79	361	351	2,086	871	625		4,877
GRADUATE TRAINEESHIPS (2)	2	3,769	1,994	23	521	1,026	127	156		7,618
GRADUATE RESEARCH ASSISTANTSHIPS (3)	90	3,197	153	736	2,784	5,919	366	1,808		15,053
GRADUATE TEACHING ASSISTANTSHIPS (4)		32	20	3	48	10,189		99		10,391
OTHER TYPES OF SUPPORT (5)	84	189	103	26	320	1,469	1,083	524	11,968	15,766
FULL-TIME TOTAL (6)	193	7,676	2,349	1,149	4,024	20,687	2,447	3,212	11,968	53,705
FULL-TIME WOMEN (7)	55	3,005	1,847	399	1,551	8,242	406	1,040	6,209	22,754
FIRST-YEAR TOTAL (8)										15,482
FIRST-YEAR WOMEN (9)										7,758

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	15,151
WOMEN (2)	9,266

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	1,087	132	1,329	750	39,577	2,531	8,299	53,705
PART-TIME (2)	519	32	350	222	12,375	677	976	15,151

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	1,729	2,178	4,822	3,927	12,656	3,784	1,863	14,519
WOMEN (2)	449	640	1,312	988	3,389	713	560	3,949
WITH MD, DDS, OR DVM DEGREES (3)	317	593	253	1,151	2,314	573	129	2,443

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-15. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 255

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	11	20	53	94	81	711	39	122		1,131
GRADUATE TRAINEESHIPS (2)	2	386	362	1	85	667	2	203		1,708
GRADUATE RESEARCH ASSISTANTSHIPS (3)	88	272	165	109	257	1,264	2	191		2,348
GRADUATE TEACHING ASSISTANTSHIPS (4)		1	0	0	44	4,131		21		4,197
OTHER TYPES OF SUPPORT (5)	12	8	0	3	190	1,178	28	745	7,939	10,103
FULL-TIME TOTAL (6)	113	687	580	207	657	7,951	71	1,282	7,939	19,487
FULL-TIME WOMEN (7)	44	365	285	103	337	4,244	38	589	4,538	10,543
FIRST-YEAR TOTAL (8)										4,748
FIRST-YEAR WOMEN (9)										2,800

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	6,603
WOMEN (2)	3,762

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	750	51	274	770	14,500	2,287	856	19,487
PART-TIME (2)	283	21	69	281	5,393	360	196	6,603

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
	FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	99	107	185	129	520	65	149	669
WOMEN (2)	41	50	68	59	218	23	60	278
WITH MD, DDS, OR DVM DEGREES (3)	0	0	5	0	5	0	1	6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-16. SUMMARY OF RESPONSES FROM DOCTORATE-LEVEL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 717

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	51	43	64	180	444	2,741	1,122	499		5,144
GRADUATE TRAINEESHIPS (2)	0	139	240	0	109	584	46	121		1,239
GRADUATE RESEARCH ASSISTANTSHIPS (3)	26	68	32	134	616	2,696	24	280		3,876
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	13	2	36	8,186		26		8,263
OTHER TYPES OF SUPPORT (5)	42	2	31	13	476	1,795	877	599	14,370	18,205
FULL-TIME TOTAL (6)	119	252	380	329	1,681	16,002	2,069	1,525	14,370	36,727
FULL-TIME WOMEN (7)	22	147	251	120	651	6,299	412	435	6,060	14,397
FIRST-YEAR TOTAL (8)										11,299
FIRST-YEAR WOMEN (9)										4,887

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	15,599
WOMEN (2)	6,779

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS						FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)		
FULL-TIME (1)	1,567	168	685	896	23,048	1,755	8,608	36,727
PART-TIME (2)	1,168	53	328	693	10,268	1,559	1,530	15,599

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT				TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
	FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)				
TOTAL (1)	37	53	49	145	284	100	135	419
WOMEN (2)	13	29	20	51	113	26	39	152
WITH MD, DDS, OR DVM DEGREES (3)	1	0	0	0	1	0	0	1

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-17. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1926

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	19	93	43	21	399	753	207	256		1,791
GRADUATE TRAINEESHIPS (2)	8	269	1,957	28	382	553	53	104		2,954
GRADUATE RESEARCH ASSISTANTSHIPS (3)	61	89	18	126	488	2,200	13	285		3,280
GRADUATE TEACHING ASSISTANTSHIPS (4)		10	18	1	38	6,285		85		6,437
OTHER TYPES OF SUPPORT (5)	1,056	28	23	8	269	1,717	490	721	18,174	22,486
FULL-TIME TOTAL (6)	1,144	489	1,659	184	1,576	11,508	763	1,451	18,174	36,948
FULL-TIME WOMEN (7)	99	324	1,470	47	744	5,177	139	505	9,395	17,900
FIRST-YEAR TOTAL (8)										16,480
FIRST-YEAR WOMEN (9)										8,295

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	37,984
WOMEN (2)	17,459

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,605	148	799	1,627	23,680	3,627	5,462	35,948
PART-TIME (2)	1,765	145	868	1,420	28,613	3,481	1,692	37,984

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	48	68	173	350	639	232	97	736
WOMEN (2)	3	16	36	37	92	26	15	107
WITH MD, DDS, OR DVM DEGREES (3)	3	32	9	48	92	18	3	95

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-18. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL ENGINEERING DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 259

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	NATIONAL INST. OF HEALTH (B)	OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	5	0	14	4	35	46	28	30		162
GRADUATE TRAINEESHIPS (2)	1	0	0	0	20	5	19	4		49
GRADUATE RESEARCH ASSISTANTSHIPS (3)	40	12	3	57	136	288	3	99		638
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	4	888		12		904
OTHER TYPES OF SUPPORT (5)	537	0	0	1	43	272	134	228	1,822	3,037
FULL-TIME TOTAL (6)	583	12	17	62	238	1,499	184	373	1,822	4,790
FULL-TIME WOMEN (7)	10	8	6	5	45	249	13	29	362	727
FIRST-YEAR TOTAL (8)										2,118
FIRST-YEAR WOMEN (9)										338

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	7,931
WOMEN (2)	897

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	77	6	172	117	2,024	726	1,668	4,790
PART-TIME (2)	247	24	309	223	5,603	1,029	496	7,931

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	7	12	25	6	50	18	34	84
WOMEN (2)	0	2	3	2	7	2	2	9
WITH MD, DDS, OR DVM DEGREES (3)	0	2	0	0	2	0	0	2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-19. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL PHYSICAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 123

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	1	0	0	2	1	17	2	9		32
GRADUATE TRAINEESHIPS (2)	0	5	0	6	1	[illegible]	0	19		32
GRADUATE RESEARCH ASSISTANTSHIPS (3)	4	9	0	9	13	49	0	7		91
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	1	523		12		536
OTHER TYPES OF SUPPORT (5)	0	0	0	3	2	18	8	1	106	138
FULL-TIME TOTAL (6)	5	14	0	20	18	608	10	48	106	829
FULL-TIME WOMEN (7)	2	6	0	3	1	144	1	3	23	183
FIRST-YEAR TOTAL (8)										357
FIRST-YEAR WOMEN (9)										93

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	643
WOMEN (2)	165

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	24	5	20	62	428	37	253	829
PART-TIME (2)	22	4	29	51	454	29	54	643

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	2	0	48	23	73	51	9	82
WOMEN (2)	0	0	3	5	8	4	2	10
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-20. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL ENVIRONMENTAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 75

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)		
GRADUATE FELLOWSHIPS (1)	0	0	0	0	4	13	19	14		50
GRADUATE TRAINEESHIPS (2)	0	0	0	0	0	12	0	7		19
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2	0	0	27	57	52	0	28		166
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	1	589		3		593
OTHER TYPES OF SUPPORT (5)	0	0	0	2	10	75	7	39	615	748
FULL-TIME TOTAL (6)	2	0	0	29	72	741	26	91	615	1,576
FULL-TIME WOMEN (7)	0	0	0	11	26	207	3	10	133	390
FIRST-YEAR TOTAL (8)										704
FIRST-YEAR WOMEN (9)										182

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	611
WOMEN (2)	166

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	14	2	4	8	1,298	134	116	1,576
PART-TIME (2)	1	1	6	2	530	43	28	611

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
	SOURCE OF SUPPORT: FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)		
TOTAL (1)	0	0	4	1	5	5	4	9
WOMEN (2)	0	0	0	0	0	0	0	0
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-8-21. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL MATH/COMPUTER SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 162

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	0	0	0	2	1	16	6	6		31
GRADUATE TRAINEESHIPS (2)	0	0	0	9	0	9	0	12		30
GRADUATE RESEARCH ASSISTANTSHIPS (3)	9	0	0	7	10	130	0	8		164
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	1	2	885		16		904
OTHER TYPES OF SUPPORT (5)	267	0	0	0	9	68	62	13	1,847	2,266
FULL-TIME TOTAL (6)	276	0	0	19	22	1,108	68	55	1,847	3,395
FULL-TIME WOMEN (7)	11	0	0	9	3	411	12	8	556	1,010
FIRST-YEAR TOTAL (8)										1,482
FIRST-YEAR WOMEN (9)										475

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	5,892
WOMEN (2)	1,883

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	75	7	173	110	1,503	466	1,061	3,395
PART-TIME (2)	238	16	252	119	4,254	577	436	5,892

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
	SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	(G)	(H)
TOTAL (1)	0	2	1	68	71	61	0	71
WOMEN (2)	0	0	0	1	1	1	0	1
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-8-22. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL LIFE SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 710

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE									
	FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	13	68	2	11	100	219	97	137		647
GRADUATE TRAINEESHIPS (2)	6	167	1,426	3	272	396	27	47		2,304
GRADUATE RESEARCH ASSISTANTSHIPS (3)	3	58	12	17	186	548	8	93		925
GRADUATE TEACHING ASSISTANTSHIPS (4)		10	18	0	19	1,692		24		1,763
OTHER TYPES OF SUPPORT (5)	107	7	11	2	74	472	107	209	5,761	6,750
FULL-TIME TOTAL (6)	129	310	1,469	33	651	3,287	239	510	5,761	12,389
FULL-TIME WOMEN (7)	61	190	1,338	11	413	1,880	75	298	3,808	8,074
FIRST-YEAR TOTAL (8)										5,636
FIRST-YEAR WOMEN (9)										3,911

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	10,099
WOMEN (2)	7,775

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS							
	BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	344	39	238	903	9,183	1,034	1,048	12,389
PART-TIME (2)	347	35	124	216	8,464	637	276	10,099

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES						OTHER NON-FAC. DOCTORAL RESEARCH STAFF	TOTAL (SUM OF COLUMNS E AND G)
	SOURCE OF SUPPORT: FEDERAL FELLOWSHIPS (A)	FEDERAL TRAINEESHIPS (B)	FEDERAL RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	(G)	(H)
TOTAL (1)	39	54	92	249	434	96	48	482
WOMEN (2)	3	14	30	27	74	19	10	84
WITH MD, DDS, OR DVM DEGREES (3)	3	30	9	48	90	18	3	93

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-23. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL PSYCHOLOGY DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 75

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	11	0	0	0	29	2	0		42
GRADUATE TRAINEESHIPS (2)	0	20	0	0	0	26	0	0		46
GRADUATE RESEARCH ASSISTANTSHIPS (3)	1	7	0	0	4	155	0	6		173
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	1	376		0		377
OTHER TYPES OF SUPPORT (5)	0	0	0	0	1	64	0	18	936	1,019
FULL-TIME TOTAL (6)	1	38	0	0	6	650	2	24	936	1,657
FULL-TIME WOMEN (7)	1	27	0	0	3	409	0	22	559	1,021
FIRST-YEAR TOTAL (8)										754
FIRST-YEAR WOMEN (9)										504

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	1,326
WOMEN (2)	841

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	51	2	3	174	1,104	281	42	1,657
PART-TIME (2)	45	9	8	30	965	246	23	1,326

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	2	1	3	0	1	4
WOMEN (2)	0	0	0	1	1	0	1	2
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-B-24. SUMMARY OF RESPONSES FROM MASTER'S-LEVEL SOCIAL SCIENCE DEPARTMENTS AT DOCTORATE-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 522

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	14	27	2	258	413	53	60		827
GRADUATE TRAINEESHIPS (2)	1	77	131	10	89	144	7	15		474
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2	3	3	9	82	978	2	44		1,123
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	10	1,332		18		1,360
OTHER TYPES OF SUPPORT (5)	145	21	12	0	130	748	172	213	7,087	8,528
FULL-TIME TOTAL (6)	148	115	173	21	569	3,615	234	350	7,087	12,312
FULL-TIME WOMEN (7)	14	93	126	8	253	1,877	35	135	3,954	6,495
FIRST-YEAR TOTAL (8)										5,429
FIRST-YEAR WOMEN (9)										2,792

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	11,482
WOMEN (2)	5,732

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,020	87	189	653	8,140	949	1,274	12,312
PART-TIME (2)	865	56	140	779	8,343	920	379	11,482

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	1	2	3	1	1	4
WOMEN (2)	0	0	0	1	1	0	0	1
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 1430

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	3	4	0	16	80	291	68	47		509
GRADUATE TRAINEESHIPS (2)	1	72	155	18	149	131	14	15		555
GRADUATE RESEARCH ASSISTANTSHIPS (3)	9	72	5	32	201	786	7	88		1,200
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	8	3	45	2,495		48		2,599
OTHER TYPES OF SUPPORT (5)	96	6	24	30	287	564	271	275	11,867	13,420
FULL-TIME TOTAL (6)	109	154	192	99	762	4,267	360	473	11,867	18,283
FULL-TIME WOMEN (7)	13	86	146	31	333	1,842	57	178	6,038	8,724
FIRST-YEAR TOTAL (8)										7,968
FIRST-YEAR WOMEN (9)										4,037

6. PART-TIME S/E GRADUATE STUDENTS		
	TOTAL (1)	33,985
	WOMEN (2)	15,384

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,251	99	417	445	11,001	2,486	2,584	18,283
PART-TIME (2)	1,802	143	872	847	22,767	5,613	1,941	33,985

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2	0	20	17	39	12	8	47
WOMEN (2)	2	0	8	5	15	4	1	16
WITH MD, DDS, OR DVM DEGREES (3)	2	0	0	0	2	0	0	2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-2. SUMMARY OF RESPONSES FROM ALL ENGINEERING DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 146

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	0	0	1	4	48	2	14		69
GRADUATE TRAINEESHIPS (2)	0	0	3	0	0	3	8	7		21
GRADUATE RESEARCH ASSISTANTSHIPS (3)	8	0	0	5	27	45	1	18		104
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	1	0	0	248		5		254
OTHER TYPES OF SUPPORT (5)	28	0	0	0	13	56	94	39	792	1,022
FULL-TIME TOTAL (6)	36	0	4	6	44	400	105	83	792	1,470
FULL-TIME WOMEN (7)	0	0	1	0	6	47	3	12	79	148
FIRST-YEAR TOTAL (8)										578
FIRST-YEAR WOMEN (9)										61

6. PART-TIME S/E GRADUATE STUDENTS		
	TOTAL (1)	4,857
	WOMEN (2)	483

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	43	5	80	25	490	237	590	1,470
PART-TIME (2)	114	18	243	75	2,814	1,056	537	4,857

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	4	0	4	2	0	4
WOMEN (2)	0	0	2	0	2	1	0	2
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-3. SUMMARY OF RESPONSES FROM ALL PHYSICAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 153

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	0	0	1	2	8	4	8		23
GRADUATE TRAINEESHIPS (2)	1	12	0	3	1	9	0	0		26
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	15	0	8	16	41	0	5		85
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	1	0	9	332		11		353
OTHER TYPES OF SUPPORT (5)	0	0	0	0	0	35	6	8	170	219
FULL-TIME TOTAL (6)	1	27	1	12	28	425	10	32	170	706
FULL-TIME WOMEN (7)	1	13	0	0	5	112	3	8	55	197
FIRST-YEAR TOTAL (8)										285
FIRST-YEAR WOMEN (9)										97

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	981
WOMEN (2)	303

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	78	3	30	11	325	74	185	706
PART-TIME (2)	41	6	39	23	623	134	115	981

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	11	6	17	8	5	22
WOMEN (2)	0	0	4	1	5	2	0	5
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-4. SUMMARY OF RESPONSES FROM ALL ENVIRONMENTAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 57

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	0	0	1	2	6	1	0		10
GRADUATE TRAINEESHIPS (2)	0	0	0	0	2	3	0	0		5
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	4	30	29	0	13		76
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	1	1	112		0		114
OTHER TYPES OF SUPPORT (5)	0	4	0	0	1	9	3	13	349	379
FULL-TIME TOTAL (6)	0	4	0	6	36	159	4	26	349	584
FULL-TIME WOMEN (7)	0	1	0	1	7	56	1	8	96	170
FIRST-YEAR TOTAL (8)										250
FIRST-YEAR WOMEN (9)										84

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	863
WOMEN (2)	220

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	15	3	9	18	412	82	45	584
PART-TIME (2)	13	3	24	15	628	153	27	863

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	1	4	5	1	0	5
WOMEN (2)	0	0	1	1	2	1	0	2
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-5. SUMMARY OF RESPONSES FROM ALL MATH/COMPUTER SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 158

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:										
GRADUATE FELLOWSHIPS (1)	0	0	0	0	6	13	6	2		27
GRADUATE TRAINEESHIPS (2)	0	0	1	1	0	18	0	0		20
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	0	2	2	52	0	7		63
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	1	4	349		15		369
OTHER TYPES OF SUPPORT (5)	31	0	0	0	70	38	51	56	1,144	1,390
FULL-TIME TOTAL (6)	31	0	1	4	82	470	57	80	1,144	1,869
FULL-TIME WOMEN (7)	3	0	9	1	22	177	17	18	327	565
FIRST-YEAR TOTAL (8)										719
FIRST-YEAR WOMEN (9)										225

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,724
WOMEN (2)	1,626

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	110	13	106	30	823	235	552	1,869
PART-TIME (2)	156	15	226	88	3,137	641	461	4,724

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	1	1	0	0	1
WOMEN (2)	0	0	0	0	0	0	0	0
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-6. SUMMARY OF RESPONSES FROM ALL LIFE SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 376

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:										
GRADUATE FELLOWSHIPS (1)	3	4	0	13	10	71	10	5		116
GRADUATE TRAINEESHIPS (2)	0	29	134	12	100	46	4	0		325
GRADUATE RESEARCH ASSISTANTSHIPS (3)	1	50	1	10	88	234	1	38		423
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	5	1	13	784		15		818
OTHER TYPES OF SUPPORT (5)	2	2	5	28	68	161	34	74	2,526	2,900
FULL-TIME TOTAL (6)	6	85	145	64	279	1,296	49	132	2,526	4,582
FULL-TIME WOMEN (7)	2	44	120	26	163	670	15	80	1,596	2,716
FIRST-YEAR TOTAL (8)										2,024
FIRST-YEAR WOMEN (9)										1,322

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	7,592
WOMEN (2)	4,943

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	297	21	60	88	3,216	456	444	4,582
PART-TIME (2)	384	31	128	167	5,624	977	281	7,592

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	2	0	4	5	11	1	2	13
WOMEN (2)	2	0	1	2	5	0	0	5
WITH MD, DDS, OR DVM DEGREES (3)	2	0	0	0	2	0	0	2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-7. SUMMARY OF RESPONSES FROM ALL PSYCHOLOGY DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 188

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:										
GRADUATE FELLOWSHIPS (1)	0	0	0	0	0	65	0	0		65
GRADUATE TRAINEESHIPS (2)	0	16	0	0	0	32	0	0		48
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	7	0	2	21	184	0	1		215
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	0	0	13	371		0		384
OTHER TYPES OF SUPPORT (5)	14	0	0	0	65	154	9	10	3,775	4,027
FULL-TIME TOTAL (6)	14	23	0	2	99	806	9	11	3,775	4,739
FULL-TIME WOMEN (7)	4	17	0	1	38	496	6	7	2,483	3,052
FIRST-YEAR TOTAL (8)										2,101
FIRST-YEAR WOMEN (9)										1,344

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	6,393
WOMEN (2)	3,995

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	229	22	45	94	3,632	521	196	4,739
PART-TIME (2)	297	31	44	138	4,796	989	98	6,393

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	0	0	0	0	0
WOMEN (2)	0	0	0	0	0	0	0	0
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-C-8. SUMMARY OF RESPONSES FROM ALL SOCIAL SCIENCE DEPARTMENTS AT MASTER'S-GRANTING INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 352

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
MECHANISMS OF SUPPORT:										
GRADUATE FELLOWSHIPS (1)	0	0	0	0	56	80	45	18		199
GRADUATE TRAINEESHIPS (2)	0	15	17	2	46	20	2	8		110
GRADUATE RESEARCH ASSISTANTSHIPS (3)	0	0	4	1	17	201	5	6		234
GRADUATE TEACHING ASSISTANTSHIPS (4)		0	1	0	5	299		2		307
OTHER TYPES OF SUPPORT (5)	21	0	19	2	70	111	74	75	3,111	3,483
FULL-TIME TOTAL (6)	21	15	41	5	194	711	126	109	3,111	4,333
FULL-TIME WOMEN (7)	3	11	25	2	92	284	12	45	1,402	1,876
FIRST-YEAR TOTAL (8)										2,011
FIRST-YEAR WOMEN (9)										904

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	8,575
WOMEN (2)	3,816

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	479	32	87	179	2,103	881	572	4,333
PART-TIME (2)	797	39	168	341	5,145	1,663	422	8,575

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	0	0	0	1	1	0	1	2
WOMEN (2)	0	0	0	1	1	0	1	2
WITH MD, DDS, OR DVM DEGREES (3)	0	0	0	0	0	0	0	0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-1. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL MEDICAL SCHOOLS: FALL 1982

NUMBER OF DEPARTMENTS: 2882

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	12	350	30	104	72	879	122	258		1,827
GRADUATE TRAINEESHIPS (2)	6	1,932	1,175	21	232	784	80	70		4,250
GRADUATE RESEARCH ASSISTANTSHIPS (3)	27	1,395	36	54	113	984	16	206		2,831
GRADUATE TEACHING ASSISTANTSHIPS (4)		32	2	2	13	1,570		19		1,638
OTHER TYPES OF SUPPORT (5)	97	141	25	10	87	538	182	199	3,613	4,892
FULL-TIME TOTAL (6)	142	3,850	1,268	181	517	4,755	360	752	3,613	15,438
FULL-TIME WOMEN (7)	56	1,471	1,025	85	307	2,127	94	287	1,945	7,397
FIRST-YEAR TOTAL (8)										4,915
FIRST-YEAR WOMEN (9)										2,774

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	4,307
WOMEN (2)	2,901

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	412	55	482	366	12,203	327	1,593	15,438
PART-TIME (2)	172	13	89	116	3,696	69	152	4,307

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,249	1,965	2,603	2,936	8,753	2,462	1,054	9,807
WOMEN (2)	298	578	707	705	2,288	452	313	2,601
WITH MD, DDS, OR DVM DEGREES (3)	303	600	230	1,100	2,233	556	104	2,337

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-2. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PUBLIC MEDICAL SCHOOLS: FALL 1982

NUMBER OF DEPARTMENTS: 1673

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	7	170	13	60	61	550	73	135		1,069
GRADUATE TRAINEESHIPS (2)	5	874	972	1	175	458	18	33		2,536
GRADUATE RESEARCH ASSISTANTSHIPS (3)	26	876	33	41	67	761	9	151		1,964
GRADUATE TEACHING ASSISTANTSHIPS (4)		27	0	2	9	1,186		15		1,239
OTHER TYPES OF SUPPORT (5)	94	80	15	2	69	266	46	127	2,139	2,838
FULL-TIME TOTAL (6)	132	2,027	1,033	106	381	3,221	146	461	2,139	9,646
FULL-TIME WOMEN (7)	52	794	862	46	226	1,396	43	188	1,220	4,827
FIRST-YEAR TOTAL (8)										3,066
FIRST-YEAR WOMEN (9)										1,837

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	2,869
WOMEN (2)	2,010

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	205	40	302	314	7,710	193	882	9,646
PART-TIME (2)	108	13	53	91	2,476	24	104	2,869

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	618	902	1,328	1,297	4,145	1,145	658	4,803
WOMEN (2)	148	260	337	297	1,042	192	191	1,233
WITH MD, DDS, OR DVM DEGREES (3)	141	272	121	469	1,003	232	40	1,043

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-3. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT PRIVATE MEDICAL SCHOOLS: FALL 1982

NUMBER OF DEPARTMENTS: 1209

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPOPT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITU-TIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	5	180	17	44	11	329	49	123		758
GRADUATE TRAINEESHIPS (2)	1	1,058	203	10	57	326	22	37		1,714
GRADUATE RESEARCH ASSISTANTSHIPS (3)	1	519	3	13	46	223	7	55		867
GRADUATE TEACHING ASSISTANTSHIPS (4)		5	2	0	4	384		4		399
OTHER TYPES OF SUPPORT (5)	3	61	10	8	18	272	136	72	1,474	2,054
FULL-TIME TOTAL (6)	10	1,823	235	75	136	1,534	214	291	1,474	5,792
FULL-TIME WOMEN (7)	4	677	163	39	81	731	51	99	725	2,570
FIRST-YEAR TOTAL (8)										1,849
FIRST-YEAR WOMEN (9)										937

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	1,438
WOMEN (2)	891

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	207	15	180	52	4,493	134	711	5,792
PART-TIME (2)	64	0	36	25	1,220	45	48	1,438

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	631	2,063	1,275	1,639	4,608	1,317	396	5,004
WOMEN (2)	150	318	370	408	1,246	260	122	1,368
WITH MD, DDS, OR DVM DEGREES (3)	162	328	109	631	1,230	324	64	1,294

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-4. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PUBLIC INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 6713

5. FULL-TIME S/E GRADUATE STUDENTS	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS)					NON-FEDERAL SOURCES			SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I)
MECHANISMS OF SUPPORT:	DEPT. OF DEFENSE (A)	HHS: NATIONAL INST. OF HEALTH (B)	HHS: OTHER HHS (C)	NATIONAL SCIENCE FOUND. (D)	OTHER FEDERAL SOURCES (E)	INSTITU-TIONAL SUPPORT (F)	FOREIGN SOURCES (G)	OTHER U.S. SOURCES (H)	(I)	(J)
GRADUATE FELLOWSHIPS (1)	98	378	156	535	1,330	5,413	2,227	2,028		12,165
GRADUATE TRAINEESHIPS (2)	32	2,679	3,077	49	1,148	2,130	231	642		9,988
GRADUATE RESEARCH ASSISTANTSHIPS (3)	2,201	3,677	404	5,205	8,827	14,709	534	4,868		40,425
GRADUATE TEACHING ASSISTANTSHIPS (4)		35	43	17	199	46,029		364		46,687
OTHER TYPES OF SUPPORT (5)	2,032	140	129	64	1,219	5,269	3,074	2,647	58,792	73,366
FULL-TIME TOTAL (6)	4,363	6,909	3,809	5,870	12,723	73,550	6,066	10,549	58,792	182,631
FULL-TIME WOMEN (7)	384	2,771	2,842	1,062	3,605	24,154	830	2,750	24,275	62,673
FIRST-YEAR TOTAL (8)										60,179
FIRST-YEAR WOMEN (9)										23,285

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	87,272
WOMEN (2)	37,016

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	4,613	504	3,924	3,941	115,705	13,579	40,365	182,631
PART-TIME (2)	3,464	306	2,058	2,228	62,615	10,133	6,468	87,272

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL FELLOW-SHIPS (A)	FEDERAL TRAINEE-SHIPS (B)	RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOC-TORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,113	1,180	5,810	2,946	11,049	4,271	2,406	13,455
WOMEN (2)	282	346	1,120	608	2,356	578	510	2,866
WITH MD, DDS, OR DVM DEGREES (3)	152	285	157	526	1,120	253	62	1,182

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-5. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL PRIVATE INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 3063

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	106	303	92	774	531	4,423	1,572	1,673		9,474
GRADUATE TRAINEESHIPS (2)	2	2,145	1,280	42	285	1,489	82	248		5,573
GRADUATE RESEARCH ASSISTANTSHIPS (3)	1,275	1,676	116	2,570	2,546	3,188	75	1,423		12,869
GRADUATE TEACHING ASSISTANTSHIPS (4)		14	18	10	102	11,864		125		12,133
OTHER TYPES OF SUPPORT (5)	317	101	61	52	709	3,231	1,402	1,414	25,992	33,279
FULL-TIME TOTAL (6)	1,700	4,239	1,567	3,448	4,173	24,195	3,131	4,883	25,992	73,328
FULL-TIME WOMEN (7)	168	1,576	1,20[illegible]	618	1,108	8,487	534	1,074	11,247	26,016
FIRST-YEAR TOTAL (8)										24,971
FIRST-YEAR WOMEN (9)										9,645

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	56,451
WOMEN (2)	21,141

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	2,606	220	1,739	1,566	43,646	5,889	17,662	73,328
PART-TIME (2)	2,619	164	1,602	1,605	39,684	6,742	4,035	56,451

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	1,101	1,286	3,573	2,763	8,723	3,069	1,642	10,365
WOMEN (2)	260	397	796	670	2,123	498	343	2,466
WITH MD, DDS, OR DVM DEGREES (3)	171	346	122	676	1,315	343	83	1,398

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE IV-D-6. SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT HISTORICALLY BLACK INSTITUTIONS: FALL 1982

NUMBER OF DEPARTMENTS: 173

5. FULL-TIME S/E GRADUATE STUDENTS — MECHANISMS OF SUPPORT:	STUDENTS RECEIVING FINANCIAL ASSISTANCE: FEDERAL SOURCES (EXCLUDING LOANS): DEPT. OF DEFENSE (A)	FEDERAL SOURCES: HHS: NATIONAL INST. OF HEALTH (B)	FEDERAL SOURCES: HHS: OTHER HHS (C)	FEDERAL SOURCES: NATIONAL SCIENCE FOUND. (D)	FEDERAL SOURCES: OTHER FEDERAL SOURCES (E)	NON-FEDERAL SOURCES: INSTITUTIONAL SUPPORT (F)	NON-FEDERAL SOURCES: FOREIGN SOURCES (G)	NON-FEDERAL SOURCES: OTHER U.S. SOURCES (H)	SELF SUPPORT (INCLUD. LOANS & FAMILY SOURCES) (I)	TOTAL FOR ALL SOURCES (SUM OF COLUMNS A - I) (J)
GRADUATE FELLOWSHIPS (1)	0	12	5	12	70	112	11	59		281
GRADUATE TRAINEESHIPS (2)	1	96	22	37	33	22	4	3		218
GRADUATE RESEARCH ASSISTANTSHIPS (3)	14	78	8	20	112	83	2	14		331
GRADUATE TEACHING ASSISTANTSHIPS (4)		2	6	0	8	358		12		386
OTHER TYPES OF SUPPORT (5)	5	3	0	3	60	84	19	20	968	1,162
FULL-TIME TOTAL (6)	20	191	41	72	283	659	36	108	968	2,378
FULL-TIME WOMEN (7)	2	110	35	35	115	259	6	35	376	973
FIRST-YEAR TOTAL (8)										791
FIRST-YEAR WOMEN (9)										329

6. PART-TIME S/E GRADUATE STUDENTS	
TOTAL (1)	1,111
WOMEN (2)	530

7. RACIAL/ETHNIC BACKGROUND OF FULL-TIME AND PART-TIME GRADUATE STUDENTS	U.S. CITIZENS: BLACK NON-HISPANIC (A)	AMERICAN INDIAN/ ALASKAN (B)	ASIAN/ PACIFIC ISLANDER (C)	HISPANIC (D)	WHITE NON-HISPANIC (E)	OTHER OR UNKNOWN (F)	FOREIGN (G)	TOTAL (SUM OF COLUMNS A - G) (H)
FULL-TIME (1)	1,144	10	56	13	178	46	931	2,378
PART-TIME (2)	514	3	25	17	284	45	223	1,111

8. POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	POSTDOCTORATES: SOURCE OF SUPPORT: FEDERAL: FELLOWSHIPS (A)	FEDERAL: TRAINEESHIPS (B)	FEDERAL: RESEARCH GRANTS (C)	NON-FEDERAL (D)	TOTAL FOR ALL SOURCES (A - D) (E)	FOREIGN POSTDOCTORATES (F)	OTHER NON-FAC. DOCTORAL RESEARCH STAFF (G)	TOTAL (SUM OF COLUMNS E AND G) (H)
TOTAL (1)	4	5	25	80	114	87	7	121
WOMEN (2)	4	3	4	9	20	5	0	20
WITH MD, DDS, OR DVM DEGREES (3)	2	0	0	0	2	0	0	2

SOURCE: NATIONAL SCIENCE FOUNDATION

other science resources publications

Science Resources Studies Highlights

R&D Funds

	NSF No.	Price
"Despite Recession, Companies' Own R&D Funding Rose 13% During 1982"	84-314	-----
"Real Growth in Federal R&D Funds Estimated at 12% in 1984—Largest Increase Since Midsixties"	84-302	-----
"Dollar Value of U.S. R&D Expenditures Overseas Declined in 1982"	83-329	-----
"Companies Plan Increases in R&D Spending Through 1984"	83-327	-----
"Defense, General Science, and Transportation Functions Lead 1984 Federal R&D Growth"	83-323	-----
"Defense and Economy Major Factors in 7% Real Growth in National R&D Expenditures in 1984"	83-316	-----
"Company and Federal Support Produce 17% Industrial R&D Spending Increase in 1981"	83-313	-----

S/E Personnel

	NSF No.	Price
"1982 Job Market for New Science and Engineering Graduates About the Same as That of Previous Years"	84-310	-----
"Industry Reports Shortages of Scientists and Engineers Down Substantially from 1982 to 1983"	84-303	-----
"1982 Doctorate Production Stable in Science and Engineering Fields, But Down in Science and Mathematics Education"	83-330	-----
"No Change in Science and Engineering Student Quality Seen by 60% of Academic Officials: At Least 25% Perceive Improvement"	83-322	-----
"Technical Employment Growth Accelerates in Selected Nonmanufacturing Industries"	83-321	-----
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"Projected Employment Scenarios Show Possible Shortages in Some Engineering and Computer Specialties"	83-307	-----
"Manufacturing Employment Becoming Increasingly More Technological"	83-303	-----
"Growth in Science and Engineering Employment Accelerated in 1980 to 1981—But Demand May Have Slackened in 1982"	83-300	-----

Detailed Statistical Tables

R&D Funds

	NSF No.	Price
Research and Development in Industry, 1981: Funds, 1981; Scientists and Engineers, January 1982	83-325	-----
Federal Funds for Research and Development, Fiscal Years 1982, 1983, and 1984, Volume XXXII	83-319	-----

S/E Personnel

	NSF No.	Price
Science and Engineering Doctorates: 1960-82	83-328	In press
Scientists, Engineers, and Technicians in Manufacturing and Nonmanufacturing Industries: 1980-81	83-324	In press

Reports

R&D Funds

	NSF No.	Price
Trends to 1982 in Industrial Basic Research	83-302	$3.50
Federal R&D Funding for Energy: Fiscal Years 1971-83	83-301	-----

S/E Personnel

	NSF No.	Price
Projected Response of the Science, Engineering, and Technician Labor Market to Defense and Nondefense Needs: 1982-84	84-304	In press
Women and Minorities in Science and Engineering	84-300	-----

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